

SPECIAL  
**14<sup>TH</sup>**  
ANNIVERSARY  
ISSUE

GROW ROOMS FOR UNDER \$50

# HIGH TIMES

JUNE 1988

\$3.95  
CANADA \$4.50

## ELECTRONIC DRUGS

SAFE, LEGAL,

AVAILABLE NOW!

**HEAVY  
METAL  
HISTORY**

**KOH  
SAMUI**  
SEX AND DRUGS  
IN THAILAND





# Indoor Sun

## ENERGY EFFICIENT GROW LIGHTS

### METAL HALIDE—(balanced growing spectrum)

All systems include assembled ballast, bulb, reflector, 15' lamp cord & 8' power cord.

- ★ 1000 watt DELUXE—Your choice of one of four great reflectors:  
46" Polished aluminum super reflective hood (white available on request). □ Our new 20" low profile (only 7" high) horizontal reflector with a space-age polished aluminum reflective panel (puts out 45% more light than conventional reflectors). □ 48" parabolic, high output reflective hood. □ 20" adjustable white enamel reflector.  
Each deluxe unit comes with a super quiet ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 110,000 lumen-12,000 hr. bulb ..... \$184.50  
To upgrade to our 125,000 lumen-12,000 hr. Horticultural Superbulb ..... Add \$15.00
- ★ 1000 watt STANDARD—18" high temp. white enamel reflector. Ventilated ballast box. System includes a 110,000 lumen-12,000 hr. bulb ..... \$167.50  
To upgrade to our 125,000 lumen-12,000 hr. Horticultural Superbulb ..... Add \$15.00
- ★ 1000 watt ECONOMY—2'x3' polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 110,000 lumen-12,000 hr. bulb ..... \$144.50  
To upgrade to our 125,000 lumen-12,000 hr. Horticultural Superbulb ..... Add \$15.00
- ★ 400 watt DELUXE—14" high temp. white enamel reflector. Ventilated ballast box with a high quality 6-outlet power supply with a lighted on/off switch and a 15 amp circuit breaker. System includes a 34,000 lumen-20,000 hr. bulb ..... \$134.50  
To upgrade to our 40,000 lumen-20,000 hr. Horticultural Superbulb ..... Add \$10.00
- ★ 400 watt STANDARD—14" high temp. white enamel reflector. Ventilated ballast box. System includes a 34,000 lumen-20,000 hr. bulb ..... \$124.50  
To upgrade to our 40,000 lumen-20,000 hr. Horticultural Superbulb ..... Add \$10.00
- ★ 400 watt ECONOMY—2'x3' polished aluminum reflective hood (not shown). Assembled open ballast. System includes a 34,000 lumen-20,000 hr. bulb ..... \$109.50  
To upgrade to our 40,000 lumen-20,000 hr. Horticultural Superbulb ..... Add \$10.00
- ★ 175 watt MINI-MIGHT METAL HALIDE—15" reflector with self-contained ballast. 15,000 lumen-20,000 hr. bulb (only 18¢ day to operate) ..... \$99.00

### HIGH PRESSURE SODIUM—(red orange spectrum)

Completely assembled. All systems include a covered ventilated ballast, bulb, reflector, 15' lamp cord and 8' power cord.

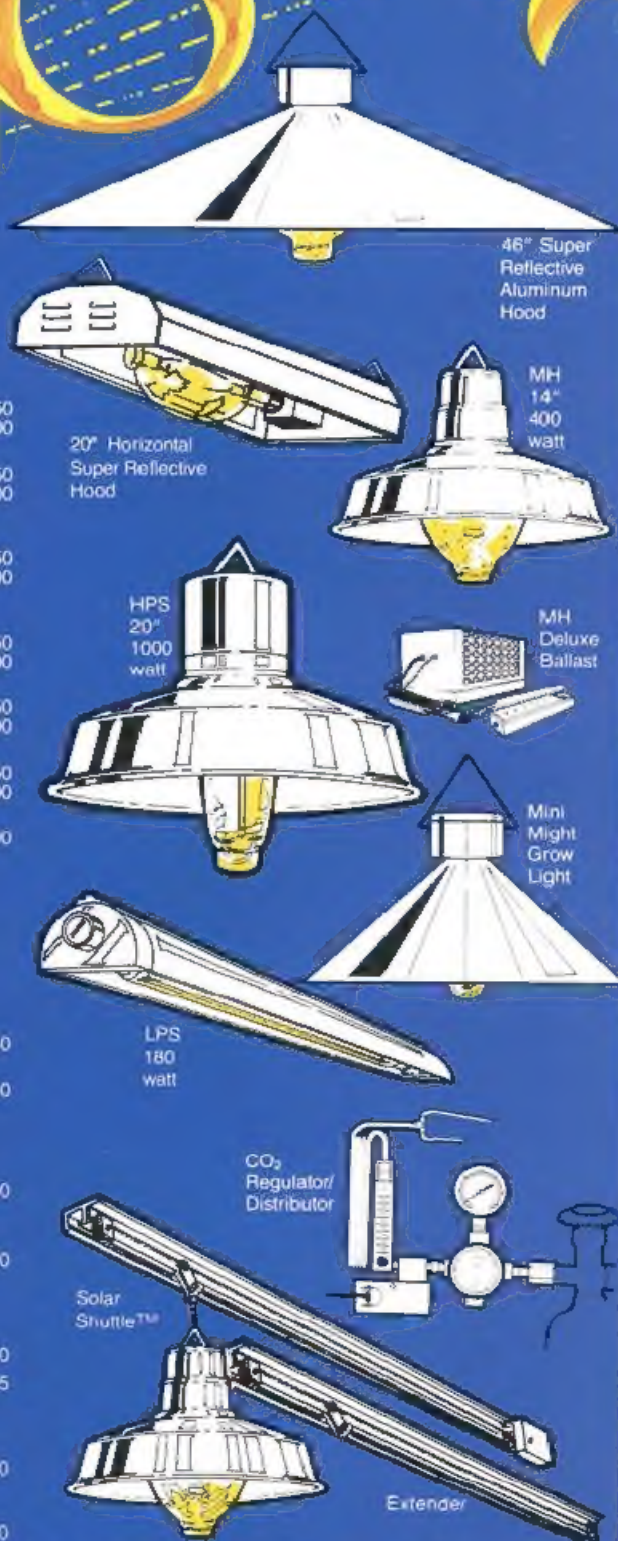
- ★ 1000 watt DELUXE—Your choice of one of four great reflectors (5 KV pulse rated socket included): □ —46" Polished aluminum super reflective hood (white available on request) □ —Our new 20" low profile (only 7" high) horizontal reflector with a space-age polished aluminum reflective panel (puts out 45% more light than conventional reflectors) □ —48" parabolic, high output reflective hood □ —20" adjustable white enamel reflector □ System includes a 140,000 lumen-24,000 hr. Sodium bulb ..... \$269.50
- ★ 400 watt DELUXE—14" high temp. white enamel reflector. Includes 50,000 lumen-24,000 hr. Sodium bulb ..... \$189.50
- ★ MINI-MIGHT GROW LIGHT—Our compact powerful (16,000 lumens) grow light employs a highly efficient High Pressure Sodium lamp (3 year bulb life) and a self-contained Transformer-Ignitor. Costs only 15¢ a day (18 hours on) or about \$4.50/month to operate. 15" reflector—good for 3'x3' area. Sale priced at \$99.00+\$5.00 shipping, anywhere in U.S.A. ..... \$99.00

### LOW PRESSURE SODIUM—(our most efficient light)

- ★ 180 watts produce 33,000 lumens. Great for flowering. Excellent for side light. Deluxe fixture. Ventilated ballast box ..... \$195.00

### ACCESSORIES:

- Replacement light bulbs available for all our systems at our low everyday prices.
  - ★ High Pressure Sodium Conversion Bulbs that work in metal halide ballasts.  
1000 watt—24,000 hr. .... \$139.00 400 watt—24,000 hr. .... \$69.00
  - ★ 15 amp Paragon timer (works on all our systems) ..... \$14.95
  - ★ CO<sub>2</sub> Regulator Distributor —Maintains CO<sub>2</sub> at a constant level while the light is on to promote up to 25% increase in growth. For growing areas 25 sq. ft. to 1000 sq. ft. Includes all gauges and distribution lines. Plugs into your light's timer (tank not included) ..... Sale Priced \$139.00
  - ★ Solar Shuttle™ Track—moves your lamp quietly and efficiently back and forth above your plants on a 6-foot track in 40-minute cycles increasing the coverage of your lamp ..... \$99.00
  - ★ Solar Shuttle™ Extender—adds another 6-foot track to the end of your Solar Shuttle™ so you can run two lights off of one shuttle ..... \$39.95
- Grow and Bloom Nutrient in granular and liquid form available on request.



ONE YEAR PARTS & LABOR GUARANTEE • 30 DAY MONEY BACK GUARANTEE • MOST ORDERS SHIPPED IN 24 HOURS  
C.O.D. ORDERS WELCOME • NO DEPOSIT REQUIRED  
QUANTITY PRICES AVAILABLE • CALL FOR FREE CATALOG.



**ENERGY SAVERS UNLIMITED, INC.**

22138 SOUTH VERMONT AVE. #C, TORRANCE, CA 90502

Toll Free Outside California (800) 421-2994 In California Call Toll Free (800) 538-3400



Prices do not include shipping









# THE ULTIMATE GROWING SYSTEM

## Starts with the AQUAFARM™ modular system.



An expandable hydro system that allows you to start with a single module then add up to as many as 12. The unique AIRFLO™ pumping system creates growth and yield faster than any other modular system on the market. It is completely automatic and virtually

problem free. Beware of imitations, they are not a genuine AQUAFARM.

Each system includes: GROROX™ growing medium, AIRFLO pumping system, General Hydroponics grow and bloom nutrients, pH test kit and complete instructions.

Priced at: single \$58.00, four modules \$198.00, six modules \$295.00, eight modules \$389.00, ten modules \$450.00 and 12 modules \$530.00. (Controller included in groups of four, six, eight, ten and twelve module systems.)

## Introducing the AQUAFARM AEROFLO™ system.

Diamond Lights and General Hydroponics are proud to offer aeroponic technology to the home grower. The AEROFLO

system is the most advanced hydroponic growing system available in the world today! It has demonstrated extraordinary results in cloning and regenerating plants from cuttings. This system is capable of growing 24 clones to maturity in 6 weeks using the "Sea of Green Method."

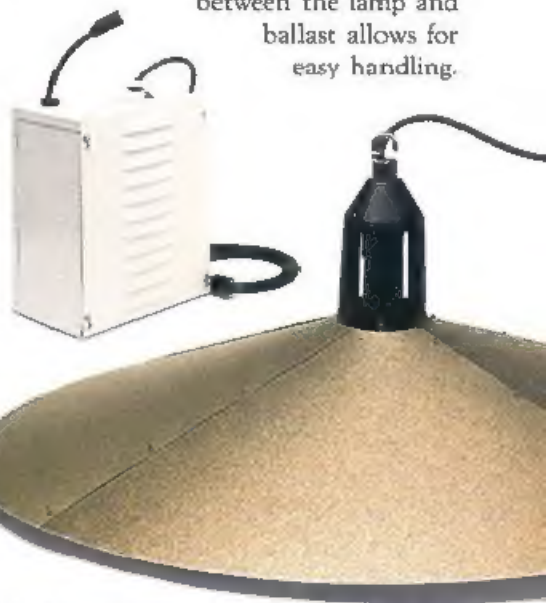
Each system includes: Rockwool growing medium, AIRFLO pumping system, General Hydroponics grow and bloom nutrients, pH test kit and complete instructions. Priced at: \$289.00.

## Top it off with the best lighting systems in the business.

Your choice of our TEXTURE-WHITE™ finish on the 21" parabolic hood, 45" standard hood, or our new 45" parabolic hood with any of our lights. A whisper quiet heavy-duty ballast with a ventilated and double paneled enclosure for maximum cooling.



Also included: 20' 600 V lamp cord, plus 8' power cord. Our unique molded plug between the lamp and ballast allows for easy handling.



Priced at: 1000 Super Halide \$198.00, 1000 H.P. Sodium \$258.00, 400 Halide \$138.00, 400 H.P. Sodium \$188.00.

We also carry Suncircle, Solar Shuttle, CO<sub>2</sub> and a complete line of growing accessories.

SEE OUR AD ON PAGE 7

For ordering or free catalog call TOLL FREE 800-331-3994 or 415-459-3994.

## DIAMOND LIGHTS

713 Mission Avenue • San Rafael, CA 94901

*"We are different from the rest."*

- Money order, credit card, COD orders shipped within 24 hrs.
- Prices do not include shipping.
- Dealer inquiries welcome.



# No. 154 CONTENTS

## JUNE 1988

### FEATURES

#### HEAVY METAL

- by Elin Wilder ..... 32  
A quick look at the development of heavy metal music from a fan's point-of-view.

#### ELECTRONIC DRUGS

- by Marilyn O'Brian ..... 40  
Are chemical drugs obsolete? No, but now they have competition.

#### KOH SAMUI

- story and photographs by John Eder ..... 45  
A visit to a Far Eastern paradise, where the pot is cheap and the livin's easy.

#### NO SWEAT HYDROPONICS

- by Ed Rosenthal ..... 53  
High tech grow rooms are fine—provided you have several thousand dollars to invest. Here's the low-budget alternative: hydro-technology for under \$50.

#### THE MOTION OF LIGHT IN WATER

- by Samuel R. Delany ..... 64  
Sex, drugs, and folk 'n' roll in the early 60s. From the journals of a cult science-fiction favorite.

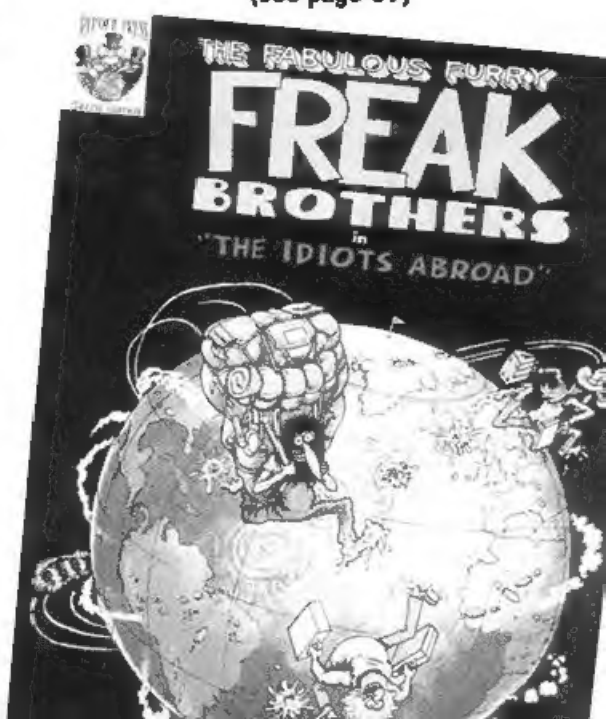
On the cover: Synchro-  
Energizer photograph by  
Andre Grossmann;



### COLUMNS DEPARTMENTS

- |                           |                                 |
|---------------------------|---------------------------------|
| PAGE SIX.....6            | HIGHWITNESS NEWS                |
| LETTERS                   | edited by Lou Stathis.....19    |
| from our readers.....14   | TRANS-HIGH MARKET               |
| ONE MAN'S DOPE            | QUOTATIONS.....26               |
| by Dean Latimer.....21    | TRANS-HIGH MARKET               |
| NORMLIZER                 | LETTERS.....27                  |
| by Jon Gettman.....23     | CENTERFOLD                      |
| ASK ED                    | by Jon Brown.....50             |
| by Ed Rosenthal.....55    | PRODUCTS.....69                 |
| DR. INDOORS               | CLASSIFIEDS.....78              |
| by Bram.....56            | BOOKSTORE.....80                |
| HIGH ART                  | MEDIA ROOM                      |
| by Carlo McCormick.....62 | edited by John Holmstrom.....89 |

New Freak Brothers book!  
(See page 89)





# SAVE!!

## BEST QUALITY INDOOR GROW LIGHTS

### METAL HALIDE: Best for fast plant growth

MH 1000 Watt Basic System ..... (Reg. \$182) **\$139.95**  
For SUPER BULB 125,000 lumen ..... add \$14.00

MH 1000 Watt Pro. System ..... (Reg. \$210) **\$170.90**  
Choice of 48" Parabolic or 24" Horizontal Reflector with quiet ballast box  
For SUPER BULB 125,000 lumen ..... add \$14.00

MH 1000 Watt Deluxe System ..... (Reg. \$238) **\$179.95**  
Same as MH 1000 Pro + 15 Amp. protective circuit breaker & on/off switch  
For SUPER BULB 125,000 lumen ..... add \$14.00

MH 400 Watt Pro System for small areas ..... (Reg. \$151) **\$124.50**  
18" dome ..... (for 48" Parabolic or 24" Horizontal Reflector add \$9.95)

### HIGH PRESSURE SODIUM: Best for budding

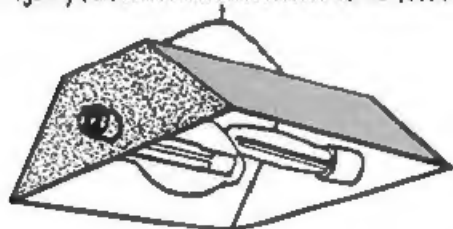
HPS 1000 Watt Deluxe System ..... (Reg. \$317) **\$255.95**  
Choice of 48" Parabolic or 24" Horizontal Reflector with quiet ballast box

HPS 400 Watt Deluxe System ..... (Reg. \$215) **\$184.95**  
18" dome ..... (for 48" Parabolic or 24" Horizontal Reflector add \$4.95)

Mini-Horizontal MH175w or HPS150w ..... (Reg. \$139) **\$95.00**

### COMBO MH400/HPS400 Horizontal System

The ultimate grow light, perfectly blended for maximum growth and budding  
24" x 20" x 10" Horizontal, ventilated, super reflective, electrowrite aluminum  
reflector, with 2 bulbs (MH400 & HPS400); quiet, remote, ventilated ballasts  
Regularly \$375 ..... **SALE \$299.00**



### LIGHT MOVERS:

SOLAR SHUTTLE™ ..... **\$93.95**

SUN CIRCLE 2™ ..... **\$187.95**

SUN CIRCLE 3™ ..... **\$244.95**

SEE OUR AD Pg. 12 • FREE CATALOG

**ORDER TOLL FREE**  
**(800) 458-7474**

**(800 635-3344 in California)**

or buy direct from **Los Angeles**

### HAMILTON TECHNOLOGY

14902 South Figueroa St., Gardena, CA 90248  
Authorized Retail Stores\*:

GEORGIA\*: Hy-dro-Grow Mini-Farm, Route 1, Cataula, Georgia  
2 miles No. of Columbus on Hamilton Road, (404) 324-4769

DENVER\*: Thomas Floral, 1 Broadway #108 (303) 744-6400

\* Prices may vary at stores.

# PAGE SIX

When cocaine and heroin were first introduced to the public, they were hailed as chemical solutions to problems like alcoholism and drug addiction. Cocaine proselytes, such as Sigmund Freud, thought the drug might hold the key to unlocking the mysteries of the human brain.

Now the latest form of mind stimulation is making its appearance—electronic drugs. Extravagant claims are being made on their behalf—euphoric ecstasy, mind expansion, and cures for all ills from phobias to addictions. Whether they create a new breed of superhumans, another breed of addicts, or fade away as just another fad, we felt they deserved coverage. Certainly, the idea of buying a machine and pressing a button to get high is intriguing. Whether these machines eventually deliver the goods or not is yet to be seen.

In other news, HIGH TIMES is proudly celebrating our fourteenth anniversary. Against all odds, HIGH TIMES has continued to publish successfully. As usual, this says more for you readers than for anything we've accomplished—it's you who have kept HIGH TIMES alive, despite the best efforts of many to close it down.

To mark the event, we're running a piece by James Marshall on the late, great, Detroit rock scene. The music of the MC5 was as much an inspiration for the original publication of HIGH TIMES as marijuana itself. The MC5 represented marijuana politics, revolution, and rock 'n' roll in a way that no one seems able to understand or appreciate anymore (including the record collectors who have kept interest in the band alive). It's worth remembering that their music was successfully repressed by music industry reactionaries, narrow-minded rock critics, and apathetic, dull-witted rock fans mellowing out to the sounds of the Beatles and other "soft-rock" groups.

It would be nice to think that everything's changed, and that rock fans would be ready for a voice of dissent or a cry for revolution. But when HIGH TIMES gets letters telling us to "Dump James Marshall," we figure nothing has changed.

The MC5



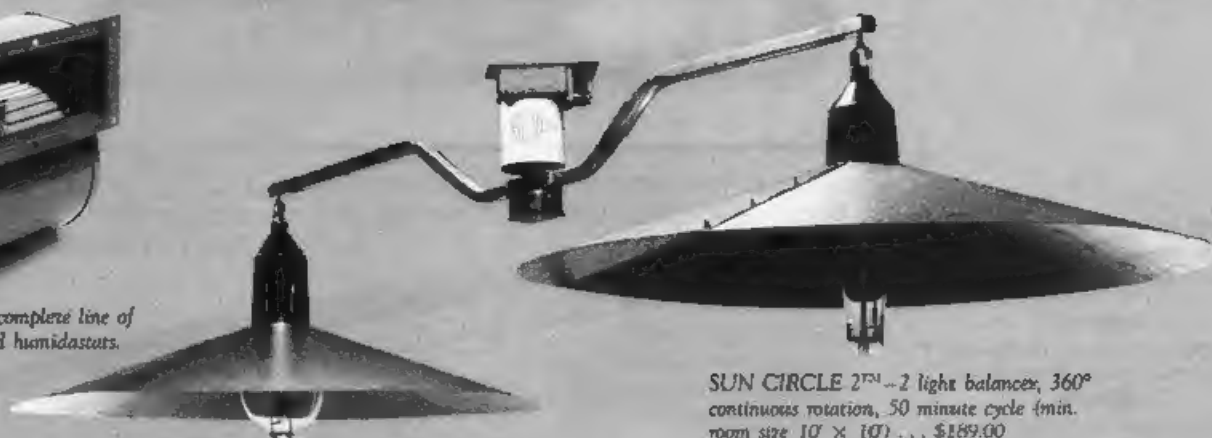
**JOHN  
HOLMSTROM**

John Holmstrom  
Executive Editor

# DIAMOND LIGHTS



See our catalog for the complete line of blowers, thermostats and humidifiers.



**SUN CIRCLE 2™**—2 light balancer, 360° continuous rotation, 50 minute cycle (min. room size 10' x 10') ... \$189.00

**SUN CIRCLE 3™**—3 light balancer, 360° continuous rotation, 50 minute cycle (min. room size 12' x 12') ... \$249.00



Our new 45" **PARABOLIC HOOD**, with **TEXTUREWHITE™** finish directs 100% of your light downward. Parabolic hood only ... \$49.00

**SOLAR SHUTTLE™**—6' track, 1 light, 40 minute cycle (min. room size 4' x 10') ... \$95.00



## THE ULTIMATE IN INDOOR GROWING ACCESSORIES

Diamond Lights specializes in a full range of the finest indoor growing equipment available. Backed by knowledgeable and courteous people who actually listen to your needs.

What about prices? Compare our prices to any indoor garden store in the United States. We will not only save you money, but our products are backed by full warranties and the quality reputation of Diamond Lights.

## WE'RE SHIPPING DAILY

With other stores, after placing your order, you could wait weeks, even many weeks for an item you needed yesterday.

Not at Diamond Lights. Every order placed with us is shipped via UPS within 24 hours, in plain boxes. Your name and address is held in the strictest confidence. (See catalog for complete ordering and shipping information). Phone TOLL FREE 800-331-3994 or in CA 415-459-3994 for ordering & FREE new 1988 catalog.

## COMPLETE LIGHT SYSTEMS

DMS1000 45" or 21" hood ... \$198.00  
DHPS1000 45" or 21" hood ... \$258.00  
DM400 45" or 21" hood ... \$138.00  
(40,000 Lumen Super Bulb) add \$10.00  
DHPS400 45" or 21" hood ... \$188.00  
\*45" Parabolic hood ... add \$20.00  
\*220 volt wiring on request—at no charge

## SEE OUR AD PAGE 4

DIAMOND LIGHTS products are also available in these locations:

### MAH

151 Alkier St., Brentwood, NY 11717  
800-227-9351 / 516-231-9472

### EAST COAST HYDROPONICS

432 Castleton, Ave., Staten Island, NY 10301  
800-255-0121 / 718-727-9300

## DIAMOND LIGHTS

"We are different from the rest"

713 Mission Ave. • San Rafael, CA 94901  
Phone TOLL FREE 800-331-3994 or in CA 415-459-3994 for ordering and our FREE 1988 catalog.



CALL TOLL FREE



1-800-634-9999  
3135 Kerner Blvd.  
San Rafael, CA

1-800-227-4567  
208 Route 13  
Bristol, PA

or call or visit your nearest  
authorized retailer:

Prices, special offers, and hours may vary.

**Arizona**

Red Mountain Hydroponics (602) 464-1797  
121 S. Country Club Dr., Mesa, AZ 85210

**California**

Applied Hydroponics-L.A. (818) 243-0068  
4527 San Fernando Rd., Glendale, CA 91204  
HydroLights (916) 895-8301  
374 Nord Ave. Ste. #1, Chico, CA 95926

**Canada**

Brite Lite/Que pousse (514) 489-3803  
2215 Walkley, Montreal, Quebec, CAN H4B2J9

**Colorado**

Rocky Mountain Lighting & Hydroponics  
(303) 428-5020  
7100 No. Broadway, Ste. 5-S, Denver, CO 80221

**Florida**

Worms Way-Florida (813) 621-1792  
5311 56th Commerce Park Blvd., Tampa, FL 33610

**Idaho**

Idaho Halide (208) 345-1564  
3159 Chinden Blvd., Boise, ID 83714

**Illinois**

Chicago Indoor Garden Supply (312) 289-4545  
108 N. Barrington Rd., Streamwood, IL 60107  
High Tech Indoor Gardening (309) 745-5813  
2164-B Washington Rd., Washington, IL 61571

**Indiana**

Worms Way-Indiana (812) 837-9901  
4620 S. State Road 446, Bloomington, IN 47401

**Michigan**

Indoor Gardening Center, Inc. (313) 451-0797  
8539 Lilley Rd., Canton, MI 48187

Indoor Gardening Center, Inc. (313) 548-4769  
26105 John R. Road, Madison Hts., MI 48071

**Ohio**

Northern Lights & Hydroponics (216) 922-0777  
2039 State Road, Cuyahoga Falls, OH 44223

Waterbeds & Stuff (614) 276-4722  
3788 W. Broad St., Columbus, OH 43228  
Seven central Ohio locations  
Mail orders: Direct source  
Call 800-848-1408, In Ohio 800-971-1668

**Oklahoma**

Urban Tek Growers Supply (405) 843-1888  
2911 W. Wilshire, Oklahoma City, OK 73116

**Pennsylvania**

Northern Lights & Hydroponics (814) 456-3962  
2809 Pine Ave., Erie, PA 16504

Northern Lights & Hydroponics (412) 654-8383  
4 Mahoning Ave., New Castle, PA 16102

Northern Lights & Hydroponics (412) 824-8446  
814 E. Pittsburgh Plaza #7, Pittsburgh, PA 15112

**Texas**

Gas Pipe (817) 460-2266  
1407 N. Collins, Arlington, TX 76010

Gas Pipe (512) 472-4774  
701 E. 5th, Austin, TX 78701

Gas Pipe (214) 526-5982  
4420 Maple, Dallas, TX 75219

Gas Pipe (214) 699-3955  
9191 Forrest, Dallas, TX 75243



More growers rely on HYDROFARM products than any other brand of equipment. Why? Because HYDROFARM products are designed for optimum performance and are manufactured for quality, safety and durability.

**LIGHT TRACK™**  
\$99.95

A one-light linear movement system. Bonus: Free grounded multi-plug (\$7.95 value) (Light not included.)



**HYDROFARM SOLO  
GEOLITE SYSTEM**

Professional quality automated Ebb & Flow with Geolite in a single unit size. 2' x 2'. Includes nutrients, etc.

**\$64.95**



**SUN CIRCLE™** \$199.95

Get more coverage with this rotating device that moves two lights in a full circle. Blend lights for optimum results. Exclusive horizontal hanger bars included at no extra charge. (Lights not included.)

One-arm Sun Circle \$139.95 Three-arm Sun Circle \$259.95

**CYLINDERS OF SUNLIGHT™**

Recommended for seedlings and cutting starts, low ceilings, same spectrum as the sun. Twisted for more light.

Box of six 48" tubes \$69.95



**Other grower-proven HYDROFARM products also available**

- 45" Reflectors • Hydrofarm Cutting Concentrate • Leisure Gardens
- Grow and Bloom Nutrients • Air Cleaner • Cutting Starter Kit • HPS Conversion Bulbs
- Digital pH Pen • Fans • Geolite • Rockwool • Mylar • White Plastic, etc.

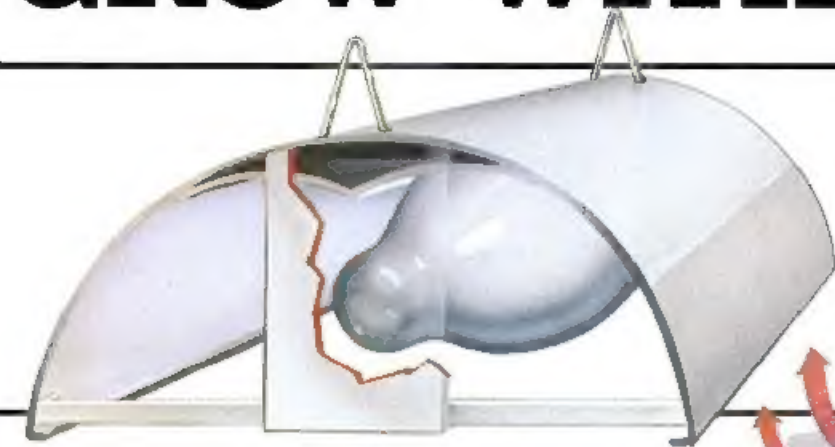
**SPECIAL OFFER**

With every purchase of HYDROFARM products we are giving away a copy of **MEGACROP**, the latest book on increasing your yield. This offer is available at all participating authorized retail outlets as well as through phone and mail orders.





# GROW WITH THE BEST



**THE HYDROFARM GROW WING™** (pat. pend.)  
Delivers more light intensity than any other reflector!

- Double parabola design for the most efficient light reflection—*THE BEST!*
- Low profile for more vertical growing space
- Electro-white finish for permanent, uniform light distribution
- Strong steel construction for level lamp support
- Adjustable lamp position bracket
- **Safety-First** HYDROFARM wiring system.



## MINI-HORIZONTAL

Choose 175 watt metal halide or 150 watt HPS system.

- Horizontal efficiency
- Built-in ballast
- Electro-white finish
- Ready to plug into any 120V outlet. **\$109.95**



## BALLAST (Included)

Improved design with double-wall steel construction, front and rear bi-level louvers, all UL components.

## LIGHTING SYSTEMS

1000 MH	\$199.95
400 MH	149.95
1000 HPS	264.95
400 HPS	189.95

## THE HYDROFARM QUANTUM™

(pat. pend.)  
The next generation from the leader in hydroponics.

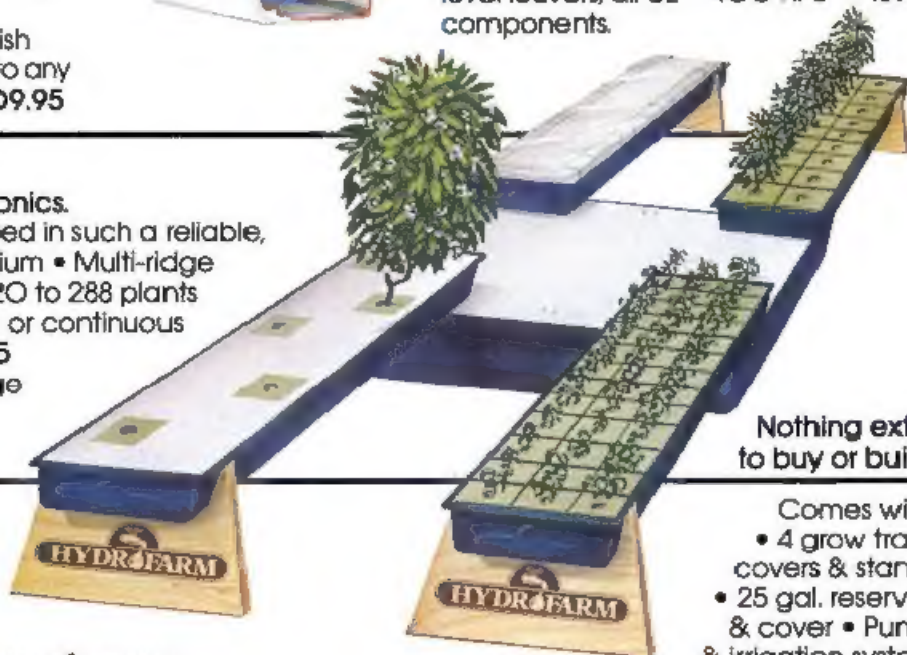
Never before has peak performance been offered in such a reliable, easy-to-use system. **Technology:** Rockwool medium • Multi-ridge irrigation and aeration system. **Versatility:** Holds 20 to 288 plants

• Grow full-sized plants or cuttings • Use full term or continuous harvest methods (alternatives illustrated) **\$199.95**

Options: **Ebb and Flow** package • Slab package

• Geolite package.

Expansion: Add on up to four more trays!



Nothing extra to buy or build.

- Comes with:
- 4 grow trays, covers & stands
  - 25 gal. reservoir & cover • Pump & irrigation system
  - Rockwool starter & growing cubes
  - Nutrients and complete instructions



## HYDROFARM CO<sup>2</sup> SYSTEM

- Fertilize the air
- Double growth and flowering
- Unique programmable timing **\$149.95**

## Why buy from us?

Applied Hydroponics has been the leading manufacturer of indoor gardening equipment since 1977. We are the oldest and the largest. Time tested and proven, our record for quality, reliability, and service speaks for itself; **HYDRO-FARM** brand products are the choice of more retailers and growers than all others combined!

## Only Applied Hydroponics offers:

Full 5-year product guarantee (bulbs, one year) • 30 day money-back guarantee • Factories (with showrooms) on both coasts • Fastest delivery nationwide • New low shipping rates



FREE CATALOG & PHONE ORDERS

**TOLL FREE** 1-800-227-4567 EAST  
1-800-634-9999 WEST

Visit our showrooms M-F 9-5, Sat 10-5

Applied Hydroponics, Inc.

Eastern U.S.-Phila.: 208 Route 13 Bristol, PA 19007  
Western U.S.-S.F.: 3135 Kerner Blvd. San Rafael, CA 94901



COD

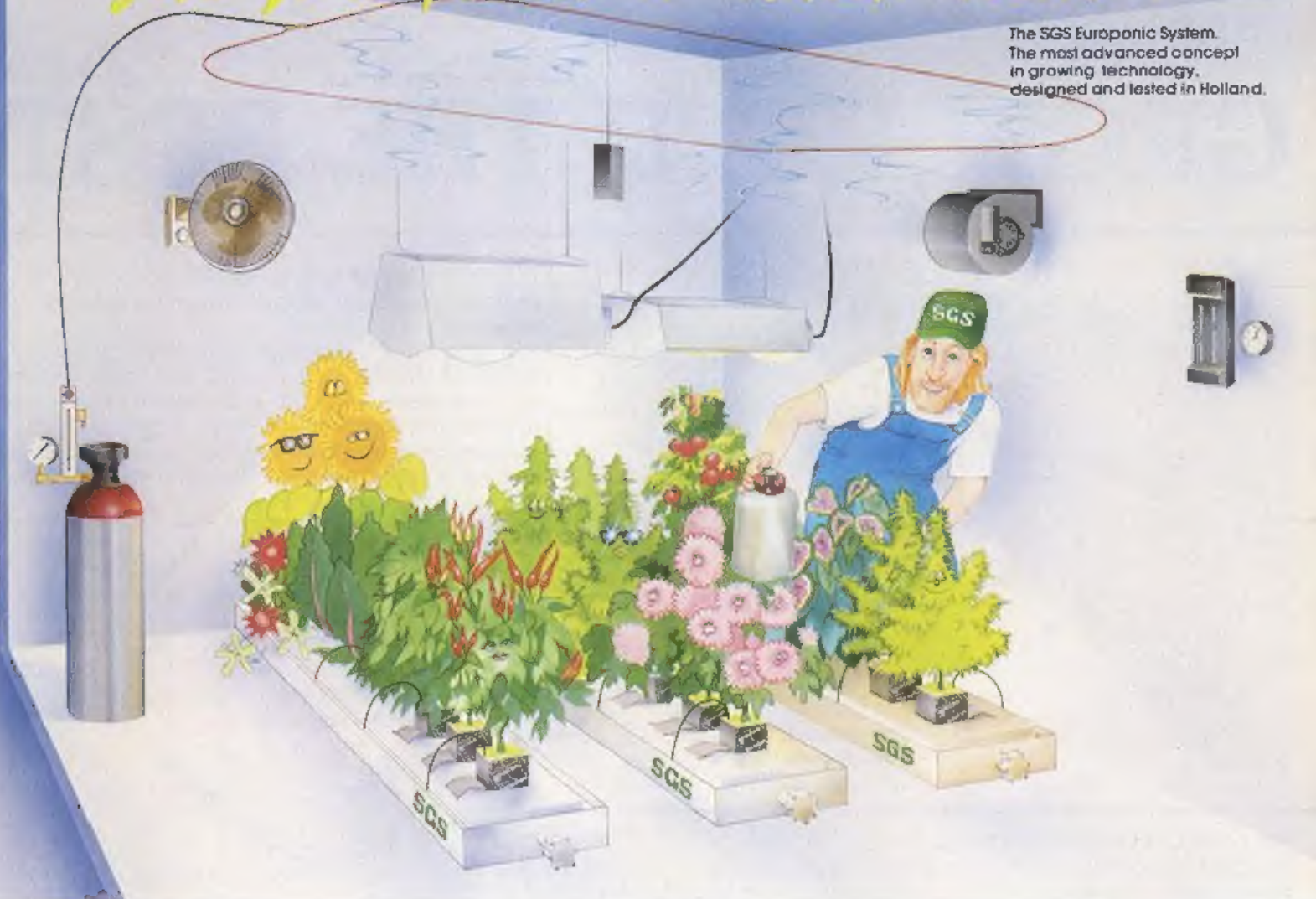


CA & PA residents add 6% sales tax. All prices plus shipping.



# Give your plants a "dutch treat"!

The SGS Europonic System.  
The most advanced concept  
in growing technology,  
designed and tested in Holland.



WE ARE DEDICATED TO THE INDOOR GARDENER. SGS IS YOUR CONNECTION WITH STATE OF THE ART DUTCH GROWING TECHNOLOGY.

• 400 W AND 1000 W METAL HALIDE AND HIGH PRESSURE SODIUM LAMPS • VERTICAL AND HORIZONTAL REFLECTORS • SGS EUROPONIC ROCKWOOL SYSTEM • THE GASSER CO2 SYSTEM • ALUMINUM CO2 CYLINDERS • SOLAR SHUTTLE AND WHIRLIGIG LIGHT MOVERS • ZESTRON NEGATIVE ION GENERATORS • KLONE KITS • GRODAN ROCKWOOL CUBES, BLOCKS AND SLABS • A COMPLETE LINE OF HYDROPONIC SUPPLIES INCLUDING FERTILIZERS, PH ADJUSTMENT CHEMICALS, PH TEST KIT, MICRO AND MACRO NUTRIENT TEST KITS • RESERVOIR HEATERS • BAT GUANO • WORM CASTINGS • MAXICROP SEAWEED CONCENTRATE • SOILLESS GROWING MEDIUMS • WHITE PLASTIC AND REFLECTIVE MYLAR SHEETING • PURGE ODOR NEUTRALIZER • OSCILLATING AND EXHAUST FANS • TIMERS • AND MUCH, MUCH MORE.

CALL OR WRITE TODAY FOR A FREE COPY OF OUR NEWEST CATALOG. YOU WILL FIND OUR SERVICE PROMPT AND OUR PRICES LOW! WE OFFER THE BEST GUARANTEE IN THE BUSINESS. MORE THAN JUST A NAME, WE ARE SUPERIOR GROWERS.

# SGS

SUPERIOR GROWERS SUPPLY, INC.

4870 DAWN AVE.  
EAST LANSING, MI 48823

IN MICH. (517) 332-2663  
C.O.D.'S WELCOME

TOLL FREE (800) 227-0027  
MOST ORDERS FILLED IN 48 HOURS





## METAL HALIDE COMPLETE GROWLIGHT SYSTEMS

### 1000 WATT SYSTEMS

DELUXE 46" round or parabolic	
20" horizontal	184.50
STANDARD 18" White Enamel Reflector	167.50
ECONOMY 2"x3" Polished Aluminum Reflector	144.50
To upgrade to a 125,000 lumen 12,000 hour Superbulb	Add 15.00
Phosphorous coated bulbs	Add 6.00

### 400 WATT SYSTEMS

DELUXE 14" White Enamel Reflector	134.50
STANDARD 14" White Enamel Reflector	124.50
ECONOMY 2"x3" Polished Aluminum Reflector	109.50
To upgrade to a 40,000 lumen 20,000 hour Superbulb	Add 10.00
Phosphorous coated bulbs	Add 6.00

### MINI-MIGHT METAL HALIDE 175 WATT 99.00



## HIGH PRESSURE SODIUM COMPLETE GROWLIGHT SYSTEMS

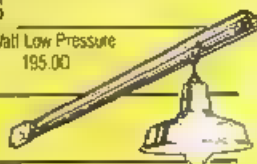
DELUXE 1000 Watt 46" round or parabolic 20" horizontal	269.50
DELUXE 400 Watt 14" Reflector	189.50
MINI-MIGHT 150 Watt (16,000 lumens)	99.00

## LOW PRESSURE SODIUM COMPLETE GROWLIGHT SYSTEMS

DELUXE 180 Watt Low Pressure Sodium Light	195.00
---	--------

## LIGHT MOVERS

6" Solar Shuttle	99.00
6" Solar Shuttle Extender	39.95
Solar Shuttle Motor	22.00
Whirling Light Turret	119.00
Sun Circle Light Rotator 360° One revolution every 40 minutes	
1 Arm	139.00
2 Arm	199.00
3 Arm	256.00



## TIMERS

Paragon 15 amp/120 volt	14.95
Dayton 15 amp/120 volt	19.95
Dayton 40 amp/120 volt	37.95
Dayton 40 amp/240 volt	39.95
Cycle Timer 1-60 min. on/off	79.00

## BULBS

### METAL HALIDE BULBS

M175 - 15,000 lumens 20,000 hours	29.00
M400 - 34,000 lumens 20,000 hours	36.95
M5400 - 40,000 lumens 20,000 hours	45.95
M1000 - 110,000 lumens 12,000 hours	54.95
M51000 - 125,000 lumens 12,000 hours	69.95
Phosphorous Coated Bulbs	Add 6.00

### HIGH PRESSURE SODIUM CONVERSION BULBS

Now available: An energy saving sodium bulb that runs off your existing Metal Halide ballast.	
175w 15,000 lumens 24,000 hours	59.00
400w 50,000 lumens 24,000 hours	69.00
1000w 140,000 lumens 24,000 hours	139.00

### HIGH PRESSURE SODIUM BULBS

LIJ50 16,000 lumens 24,000 hours	39.00
LIJ400 50,000 lumens 24,000 hours	52.95
LIJ1000 140,000 lumens 24,000 hours	94.95

### LOW PRESSURE SODIUM BULBS

180 Watt 33,000 lumens 24,000 hours	95.00
-------------------------------------	-------

# PRODUCTS TO GROW BY

Any order of \$500.00 or more gets you 5% off our already low prices.

## VITA LITE

4-ft. power twist, 40 Watt	13.95
Case of six	75.00

## REFLECTORS

(complete with socket and cord)

46" polished aluminum or white	49.00
20" horizontal	49.00
20" adjustable white	40.00
18" white	30.00
14" white	25.00
48" Parabolic hood	49.00
4"x4" square polished aluminum	115.00
5"x5" square polished aluminum	130.00

## BALLASTS

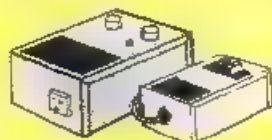
Metal Halide Ballasts (110v or 220v available)	
Deluxe 1000w (includes power supply)	115.00
Stan. 1000w	105.00
Econ. 1000w (uncovered)	97.00
Deluxe 400w (includes power supply)	95.00
Stan. 400w	85.00
Economy 400w (uncovered)	70.00
Ballast cover	10.00
High Pressure Sodium Ballasts (110v or 220v avail.)	
Deluxe 1000w	170.50
Deluxe 400w	125.50

## HYDROPONIC SYSTEMS

4 unit hydrospool	208.00
8 unit hydrospool	295.00
Each additional hydrospool	16.00

## SUBMERSIBLE PUMPS

#2P495-120 GPH	37.95
#1P553-140 GPH	39.95
#1P321-300 GPH	56.95

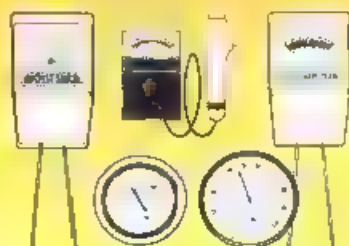


## SURGE SURVIVAL SYSTEM

Command Module with one Remote Module (120 or 240 volts)	139.00
Additional Remote Modules (120 or 240 volts)	ea. 45.00

## METERS

PH Digital Meter	75.00
Dissolved Solids Digital Meter	75.00
Light Intensity Meter	24.99
Plant Computer	19.95
PH Computer	19.95
Soil Salts Meter	20.99
Moisture Meter	11.95
MINIMAX Thermometer	32.95
Taylor 4" Barometer	39.95
Fertilizer Analyzer	20.99
Humidity Gauge	21.95
Deluxe Humidity and Temperature Gauge	36.95
CO <sub>2</sub> Gas Detector System (2 analyzer tubes incl.)	19.95
CO <sub>2</sub> Analyzer Tubes	3.75
CO <sub>2</sub> Tester	8.99



## SOIL AND LIQUID TESTERS

Sudbury Soil Test Kit Tests Ph, N, P, K	14.95
Sudbury Soil PH Tester	3.99
Tetra Test Liquid PH Tester	3.95
Wardley Jr. Liquid PH Tester	3.95
Wardley Sr. PH Test Kit	5.99
Penn Plax Test Strip for Liquid PH	2.75

## FANS AND BLOWERS

Ventilator fan with Thermostat (14" 900 CFM)	69.95
Squirrel Cage-15 CFM	21.95
Squirrel Cage-50 CFM	29.95
Squirrel Cage-100 CFM	43.95
Squirrel Cage-160 CFM	54.95
Squirrel Cage-200 CFM	69.95
Squirrel Cage-255 CFM	69.95
Squirrel Cage-320 CFM	74.95
Squirrel Cage-465 CFM	79.95
Squirrel Cage-525 CFM	89.95
Squirrel Cage-960 CFM	59.95
Thermostat	19.95
Auto Flo Humidistat	34.95

## CO<sub>2</sub> SYSTEMS

CO <sub>2</sub> Regulator/Distributor	139.00
E.S.U. CO <sub>2</sub> Generator (up to 500 sq. ft.)	324.00
Johnson CO <sub>2</sub> Generator (up to 4800 sq. ft.)	499.00

## CHARCOAL FILTER SYSTEMS

Skunk Buster #100	109.00
Skunk Buster #200	169.00
Skunk Buster #400	225.00

## NEGATIVE ION GENERATORS

Airasec	49.95
Pulsair	99.00



## GROWING SUPPLIES

Mylar (Double-sided: 99% reflectivity)	
4"x50" roll	29.00
4"x100" roll	49.00
Mini Grow House	14.95
Rock Wool	
2"x2" Cubes	20
3"x3" Cubes	39
3"x4" Cubes	49
40 lb Bale	39.00
Rock Wool Slabs	
3"x6"x3"	4.99
3"x8"x3"	6.99
3"x12"x3"	10.99
Grow Bags	
2 Gallon Grow Bag	39
5 Gallon Grow Bag	59
7 Gallon Grow Bag	65
10 Gallon Grow Bag	69
Alka Liche	
1 quart	6.95
1 gallon	16.99
Safe Soap Insect Spray	
8 oz. spray	2.99
8 oz. concentrate	5.75
Rootone Hormone Rooting Powder (4 oz.)	1.69
Jiffy 7 Peat Pellets (2 doz.)	2.40
With Prul Plant Protector (Keeps leaves from burning)	
14 oz. Spray	5.49
1 pint concentrate	8.99

## BLACK GOLD FERTILIZER

All Organic 1.5 cu. ft.	8.99
Pure Earthworm Castings 20 quarts	13.95

## NUTRIENTS

Greenleaves All Purpose Liquid Nutrient ideal for all stages of growth. Use with soil or hydroponic systems	
12 oz. bottle	3.95
1 gallon	19.95
Super Bloom Liquid Greenleaves 10-40-10	
12 oz. bottle	5.95
1 gallon	24.95
E.S.U. Dry Concentrate concentrated water soluble fertilizer, 1 teasp. per gallon, 1 pound makes 100 gallons	
Grow (20-6-35) Bloom (9-21-12) All Purpose (16-12-16)	
8 oz.	3.95
5 lbs.	19.95
25 lbs.	79.00

## ROOTING FORMULA

Great Roots - Super liquid rooting formula (with rooting hormones and minerals) 2 part 13 oz. total	14.95
---	-------

## BOOKS

Gardening Indoors	14.95
Beginning Hydroponics	7.95
Hydroponic Gardening	7.95
Hydroponic Food Production	24.95

## INDUSTRIAL CATALOG

(\$5.00 refunded with next order from catalog)	5.00
--	------



**Energy Savers Unlimited, Inc.**

22138 S. Vermont Ave. #C  
Torrance, CA 90502

Call Toll Free: Outside California (800) 421-2994

In California (800) 538-3400

Prices do not include shipping. One year parts and labor guarantee. 30 day money back guarantee. C.O.D. welcome - No deposit required.

©Energy Savers Unlimited, Inc.



# THE SECRET OF SUCCESSFUL INDOOR GROWING

the easy Hamilton way...

Grow bigger, healthier plants faster.

**PROVEN RESULTS:** Metal halide or high pressure sodium lights create the highest intensity, best quality sun's full spectrum - indoors. Fluorescent systems are weak, inefficient and do not give your plants enough light lumens for good growth

# SAVE!!

**HIGH QUALITY Direct from the Manufacturer!**

**METAL HALIDE: Best for fast plant growth.**

**MH 1000 Watt Basic System** ..... (Reg \$182) **\$139.95**  
High quality, assembled, QUIET, open ballast 20' lamp cord, power cord, socket.  
110,000 lumen / 12,000 hr. bulb. (For SUPER BULB 125,000 lumen add \$14.00)

**MH 1000 Watt Professional System** ..... Reg \$210 **\$165.95**  
18" Dome (for HORIZONTAL reflector or 48" PARABOLIC add \$4.95) High quality,  
assembled, QUIET ventilated ballast box, 20' lamp cord, 110,000 lumen / 12,000 hr.  
bulb. (For SUPER BULB 125,000 lumen add \$14.00).

**MH 1000 Watt Deluxe System** ..... (Reg \$235) **\$179.95**  
Choice of: HORIZONTAL reflector, 48" PARABOLIC, 46" 22" adjustable Dome. High  
quality assembled, QUIET ventilated ballast box with GROUNDED 5 OUTLET ON-OFF  
CONTROL, 15 AMP PROTECTIVE CIRCUIT BREAKER, 20' lamp cord, 110,000  
lumen / 12,000 hr. bulb. (For SUPER BULB 125,000 lumen add \$14.00).

**MH 400 Watt Deluxe System** For small area up to 4 x 4. Reg \$151 **\$124.50**  
18" Dome (for HORIZONTAL reflector or 48" PARABOLIC add \$4.95) High quality,  
assembled, QUIET ventilated ballast box, 20' lamp cord, 34,000 lumen / 20,000 hr.  
bulb. (For SUPER BULB 40,000 lumen add \$10.00).

**COMBINATION MH/HPS HORIZONTAL SYSTEM** ..... **\$299.00**  
The ultimate grow light! 90,000 lumens of perfectly blended light 24" x 20" x 10"  
Horizontal ventilated super-reflective electro white aluminum reflector with 2 bulbs  
a MH 400 & HPS 400 - quite remote ventilated ballasts.

**HIGH PRESSURE SODIUM: Increases budding & flowering**

**HPS 1000 Watt Deluxe System** ..... Reg \$317 **\$255.95**  
Choice of: HORIZONTAL reflector, 48" PARABOLIC, 46" or 22" adjustable Dome.  
High quality assembled, QUIET ventilated ballast box, 20' lamp cord, 5KV socket,  
140,000 lumen / 24,000 hrs. bulb.

**HPS 400 Watt Deluxe System** ..... Reg \$215 **\$184.95**  
18" Dome (for HORIZONTAL reflector or 48" PARABOLIC add \$4.95) High quality,  
assembled, QUIET ventilated ballast box, 20' lamp cord, 50,000 lumen / 24,000 hr. bulb.

**LIGHT MOVERS: More light coverage to grow more plants.**

**Motorized Lite Track™ Double your light coverage** **\$93.95**  
Best single light mover. 8' track covers up to 8 x 10' (EXTENDER for 2nd light \$38.95).

**Sun Circle™ - Increases flowering by a blend of MH&HPS** **\$187.95**  
Two lights rotate continuously in full circle - greatest coverage, up to 12 x 12

**Whirligig™ - Eliminates hot and dark spots** **\$114.95**  
Two lights move back & forth in a circular pattern. Adjustable from 8 x 8' up to 15 x 15

**HYDROPONICS:** Our customers say their plant yields are three times  
greater and two times faster with Hamilton's automated flood, drain  
HYDROPRO system. Roots are provided maximum direct nutrition and  
aeration without soil.

**HYDROPRO SINGLE™** Idea: up to 4 plants, 2' x 2' area **\$59.95**  
Includes pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7 manual, etc.

**HYDROPRO 4™** Grow up to 16 plants, 3' x 9' or 6' x 6' area **\$187.95**  
Includes submersible pump, grow & bloom nutrients, timer, manual and more.

**HPS BULBS - That work in metal halide systems!**  
1000 watt **\$137.50** 400 watt **\$67.50**

**CO<sub>2</sub> ENRICHMENT SYSTEM:** Increase growth by 40% **\$137.95**

**FREE INDOOR GARDENING BOOKLET**  
with any system purchased

**ION GENERATORS:** Clean growing area of smoke, odor, pollen & pollutants.  
AirEase Ion **\$49.50** Pulsair generates 300% more ions **\$96.50**

**DIGITAL pH PEN:** Instant accurate readings Reg \$97 **\$69.95**

**ROCKWOOL, REPLACEMENT BULBS, MYLAR, BLOWERS, TIMERS, GROWING SUPPLIES etc** Call for Price

**FREE CATALOG**



**Why Hamilton's Customers are Satisfied:**

- Highest quality products at lowest prices
- Large inventory with shipment in 24 hours
- Reliable service and 2 yr guarantee (bulbs 1 yr)
- 30 day money back guarantee
- Fast C.O.D. delivery by UPS anywhere

Visit our Los Angeles showroom.

**HAMILTON TECHNOLOGY CORP.**  
14902 S Figueroa Street Gardena CA 90248

**ORDER TOLL FREE:**

**(800) 458-7474**

**(800) 635-3344 (in California)**



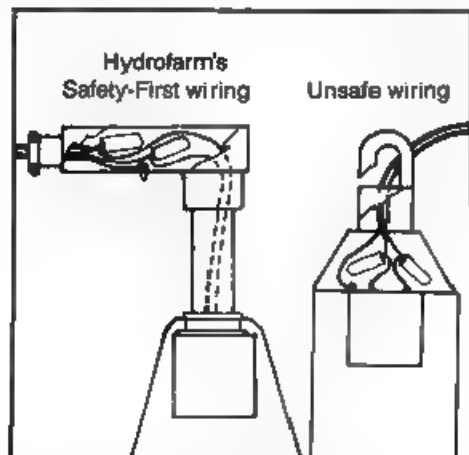
## SIMON SAYS:

### What to Look For When Buying Grow Lighting Fixtures

Simon Wright, author of MEGACROP, answers your indoor growing questions.

**Q** There seem to be a lot of different ways to wire the socket to the lamp cord. Is any one method better than another?

**A** Yes! The connection made between the black lamp cord and the light socket is critical. The right way is to run special high-temp leads away from this heat-sensitive area out to a cooler place where the connection to the lower temperature lamp cord can be made safely. What you *don't* want is a connection made right at the socket where the high temperature can eventually cause the lamp cord insulation to dry out and crack, exposing bare wire. This common shortcut can lead to a dangerous short!



**Q** Should I get a system with an in-line plug?

**A** No. Although some companies offer the convenience of an in-line plug, what they don't tell you is that either the cord, the plug, or both are only rated for 250 volts. All systems should use 600 volt cord from the ballast to the high-temp socket leads. Don't settle for less!

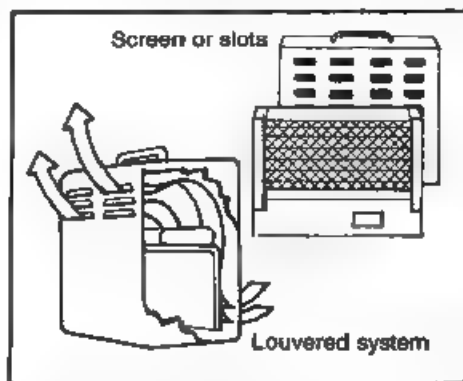
**Q** Does my light system really need a heavy-duty power supply cord from the ballast box to my timer in the wall outlet?

**A** Yes! This cord should be 14 gauge (the lower the number, the heavier the gauge). Do not buy a 1000 watt system with an inadequate 16 gauge power cord; it can get so hot it may actually melt your timer!

## ALL LIGHTS ARE NOT CREATED EQUAL

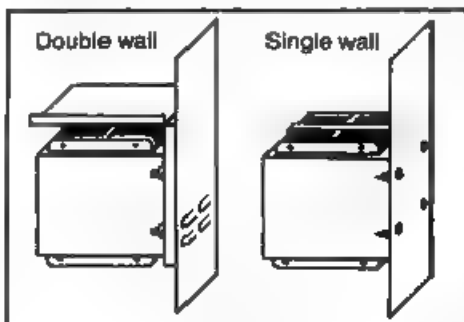
**Q** Aren't all the ballasts really the same?

**A** All ballasts consist of a transformer and a capacitor, but the similarities end there. There are great differences in the way these electrical components are housed. The first thing I always caution against is buying a so-



called "open" ballast which is really nothing more than mounting the components on a board or a piece of sheet metal. Unprotected electrical components can be a real potential hazard in an area where water is being used. Ballast enclosures come in two types: ventilated and louvered. Ventilated boxes (plain screens or open slots) will keep your hands out of the ballast but won't prevent water from splashing the components. **Louvered enclosures** are a much better choice. Hydrofarm's bi-level louver system not only protects the components, but has louvers set lower in the rear and higher in the front so cool air is actually drawn in through the lower louvers, flows in and around the components, and then exits through the upper louvers.

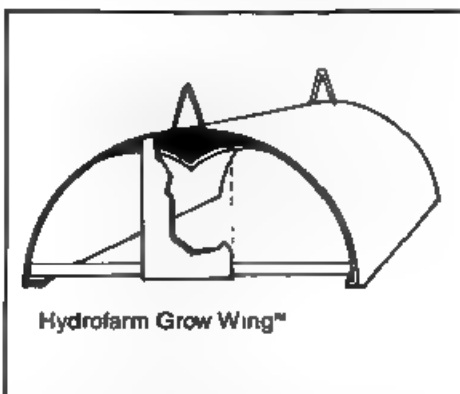
Another difference is how the components are mounted in the enclosure. The best method is **double wall construction**, where components are mounted on a special steel plate that is welded to the wall of the box. This has several advantages: extra strength



is added to support the heavy transformer, a space is created for cool air to circulate around the components, the outer wall of the box stays cooler. Hydrofarm not only uses this double wall construction technique, but they also utilize **welded studs** to securely anchor these heavy components. Some "home-made" units use only sheet metal screws which, if they don't break loose in shipping, will loosen up and rattle later. Numerous screw heads sticking out the side of the enclosure are a sure tip-off of single wall construction.

**Q** What type of reflector should I look for?

**A** Due to recent innovations, **horizontal reflectors** are generally recognized to be the best for most applications. Here's why: a bulb's light comes from the arc tube inside. A vertical bulb shines most of its light out sideways so it all must bounce off a reflector first. A lot of light energy gets lost this way. A horizontal bulb exposes the whole length of the arc tube, so it shines more light directly down onto



your plants. The light that does bounce off a horizontal reflector only travels a very few inches before being directed down, so very little is lost. A good example is Hydrofarm's new horizontal Grow Wing™, which uses an ingenious double parabola design to efficiently reflect light for optimum growth.

A few last tips to help you make the right choice: generally, steel construction is preferred over aluminum because of its strength. Painted surfaces are preferred over plain or polished metals which tend to oxidize and rust; try to buy brand name products made by a manufacturer with a good reputation for quality and service—you'll be glad you did.



# LETTERS

## GONE GONE GIRLS?

First of all, what is a go-go girl? Without even looking at the sexually implicit photograph, the mere title implies a masculinely-dominated magazine's insult to the mentality of its readers. "HIGH TIMES believes in personal freedom" (January '88, page 14), yet displaying women as mere sex objects completely contradicts this image. In our opinion this section is completely chauvinistic and should be banned. By the way, if one feels the need to look at a "go-go girl," *Playboy* is located just a little further down the newsstand shelf.

—J and S.

Falmouth, Massachusetts

One of the great failures of the feminist movement has been its attempt to deny the innocent pleasures of sex appeal. While we are sorry that women have been frequently victimized by male-dominated societies, we do not intend to deny biological forces provided by Mother Nature. Ninety percent of our readers are male, and since the beginning of time, men have enjoyed the sight of attractive females. That's why such pictures dominate our television screens, magazines, billboards, and films. Most other magazines put sexy "go-go girls" on their covers to sell issues. But that doesn't stop women from buying *Cosmo*, *Vogue*, and *Elle*, does it? So why not get off our back already?

## PARADISE LOST

I was very impressed by John Holmstrom's article on Negril, Jamaica, in the March issue. It does seem unfair that politics have spoiled this ganja paradise. I feel very sympathetic for the people who have had their fields burned by Ronnie Raygun's troops. However, I recently read in *Time* magazine that gangs of illegal aliens from Jamaica are running the crack trade in Miami. I don't know who to believe, but if *Time* has their facts straight, then isn't it hypocritical of the Jamaicans to say coke is ruining their Rasta culture? Who is telling the truth?

—Confused

Billings, Montana

Not all Jamaicans are Rastas, and not all Jamaicans are coked-up rude boys with guns. Why can't both articles be true? By the way, there is one fact in the article we'd like to clear up: Xtabi does allow locals to patronize its premises.

I congratulate you on the articles on Negril. I have lived in Jamaica for long periods, and my last visit to Negril in January convinced me it is time to seek a new, less corrupt place to cool out. John Holmstrom's article was soft. Negril is MUCH WORSE and Kingston is HELL. Everyone is living in an armed camp. The country is flipping out. If Peter Tosh, patron saint of Rasta peace and punty, can get all those bullets, what happen to you tourist?

—Beam Me Up Scottie  
Marina Del Ray, California



I have thought about visiting Negril for many years, looking forward to some great smoke, beautiful beaches, and reggae. Then I read your March issue. It is sad to read that Jamaicans have to deal with cocaine, American helicopters and yuppies. However, Jamaican politicians will act if they believe tourists are being scared away by coke-induced crime. *HIGH TIMES* readers can help by flooding the Jamaican tourist board with letters expressing their reservations about visiting Jamaica. Mention rumors about coke problems and 'copter raids. Send letters to: Jamaican Tourist Board, 866 Second Avenue, New York, NY 10017

—L.A.

Champaign, Illinois

## POT POLITICS

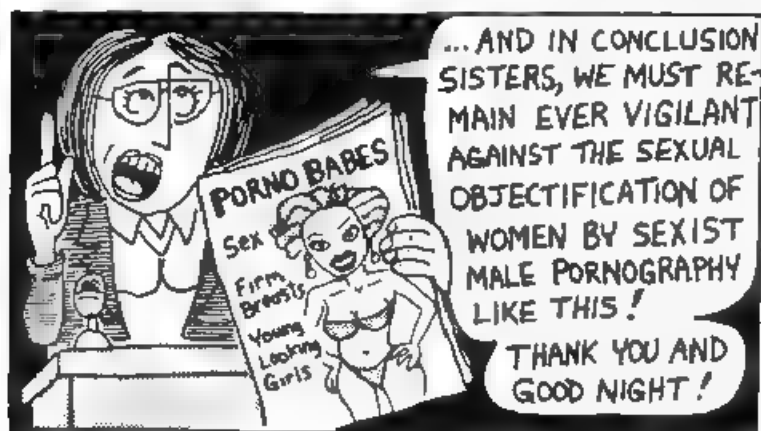
I was surprised to read Peter Gorman's article on "The Politics of Marijuana" (March '88), which claimed that none of the presidential contenders advocated legalization. Former Congressman Ron Paul, candidate for the Libertarian Party, has called for legalization of all drugs. While he does not advocate their use, he feels the government has no right to interfere with the private lives of adults. I'm voting for Ron Paul and I encourage other "victimless criminals" to do the same.

—P.B.

Gainesville, Florida

continued on page 28

## TWISTED IMAGE by Ace Backwords





# THE 1988 HIGH TIMES READER SURVEY

WIN A FREE T-SHIRT!

Play HIGH TIMES Editor and win a chance at one of twenty free HIGH TIMES t-shirts!

Just fill out the survey below and mail it back to us!

1) Are you ☐ male ☐ female?

2) What is your age?

☐ under 18

☐ 18-22

☐ 23-26

☐ 27-35

☐ 36-45

☐ 45 or older

3) Where do you buy HIGH TIMES?

☐ newsstand

☐ bookstore

☐ record store

☐ convenience store

☐ I subscribe

☐ other

4) How often do you buy HIGH TIMES on the newsstand, record store, etc.?

☐ 1-3 times a year

☐ 4-6 times a year

☐ 7-9 times a year

☐ 10-12 times a year

5) How long have you been buying HIGH TIMES?

6) Why did you buy this issue?

7) I do the following at least once a month.

☐ buy a comic book

☐ buy another magazine

☐ buy a book

☐ watch videotapes

☐ go to the movies

☐ buy a record

☐ go to a rock concert

☐ go to a live show other than a rock concert

☐ use a computer for fun

8) Rate the following articles on a scale of 0-5 as follows

5-Loved it!

4-Very good

3-Mediocre

2-Not good

1-Hated it!

0-Didn't read

☐ Heavy Metal

☐ Electronic Drugs

☐ Koh Samui

☐ The Motion of Light in Water

☐ Ask Ed

☐ Dr. Indoors

☐ Page Six

☐ Letters

☐ Highwitness News

☐ One Man's Dope

☐ NORMLIZER

☐ THMQ/THMA

☐ Centerfold

☐ No Sweat Hydroponics

☐ High Art

☐ Products

☐ Bookshelf

☐ Hep Cat

☐ Go-Go Girl of the Month

☐ The Hound's Eye View

☐ Chef Ra's Psychedelic Kitchen

☐ Twisted Image

☐ Psychotronic

☐ Tapeworm

☐ Top 100

9) If I were editor of HIGH TIMES I would run

more less the same

1) comic strips ☐ ☐ ☐

2) politics ☐ ☐ ☐

3) music ☐ ☐ ☐

4) travel ☐ ☐ ☐

5) psychedelic drugs ☐ ☐ ☐

6) marijuana ☐ ☐ ☐

7) growing ☐ ☐ ☐

8) interviews ☐ ☐ ☐

9) health issues ☐ ☐ ☐

10) mystic experiences ☐ ☐ ☐

11) science ☐ ☐ ☐

12) fiction ☐ ☐ ☐

13) letters to the editor ☐ ☐ ☐

14) legal and non-

chemical ways of

getting high ☐ ☐ ☐

10) The best article in this issue was

11) The article I wouldn't have bothered printing was

12) Who would you most like to see HIGH TIMES interview?

13) My three favorite music/rock groups are

14) I buy the following magazines regularly

15) If I were the editor of HIGH TIMES, the first thing I'd do to improve the magazine would be

(check only one)

☐ expand the letters to the editor section

☐ run more feature length articles

☐ expand the grow section

☐ run more pictures of pot

☐ run more fiction

☐ expand the news and political coverage

☐ run more stuff on legal and non-chemical ways of getting high

☐ run more comic strips

☐ run more color pages

☐ expand the number of pages in HIGH TIMES

☐ other

16) Have you responded to at least one mail order ad in HIGH TIMES in the last year?

☐ yes ☐ no

17) Have you responded to a Classified ad in HIGH TIMES in the last year?

☐ yes ☐ no

18) What would you like to see advertised in HIGH TIMES?

19) What was your income last year?

☐ under \$10,000

☐ \$10,000-14,999 ☐ \$30,000-39,999

☐ \$15,000-19,999 ☐ \$40,000-49,999

☐ \$20,000-29,999 ☐ \$50,000 or more

20) Do you have any additional comments?

What local store in your area would you like to see display HIGH TIMES?

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

To be eligible for the drawing, you MUST fill out this information

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

Send your reply to: HIGH TIMES,  
Dept. S-2, 211 E. 43rd St., New York,  
N.Y. 10017



# PIONEERS IN THE MODERN ERA OF RESEARCH ON THE MINERAL NUTRITION OF PLANTS... ONE OF THEM WILL CHANGE YOUR LIFE



**LUTHER BURBANK** lived from 1849-1926 and for better or worse has there been a greater contribution to plant development. Every time you eat an apple, you are eating a fruit perfected by Mr. Burbank. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Mr. Burbank's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Mr. Burbank's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

The results of his work, from potatoes to apples to every domesticated fruit, vegetable or flower, are what we grow today. Mr. Burbank's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.



**DENNIS ROBERT HOAGLAND** ASA, was the inventor of the "four salt" Hoagland nutrient solution which is still used today. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Dr. Hoagland's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Dr. Hoagland's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Dr. Hoagland's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Dr. Hoagland's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Dr. Hoagland's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.

Dr. Hoagland's method of growing plants was simple. He used a water-soluble nutrient solution and a growing medium of peat moss and perlite. He grew plants in a controlled environment, and he selected the best plants for breeding. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants. He was a pioneer in the modern era of research on the mineral nutrition of plants.



**JEFFERY JULIAN DEMARCO** 1951 is President and founder of PYRAPONIC INDUSTRIES and is the inventor of the methodology known as GROWING PLANTS PYRAPONOMETRICALLY and the PHOTOTRON.

Three things are required to grow plants pyraponometrically: 1. A laboratory grade growth chamber known as the PHOTOTRON. 2. A special METHOD for plant growth and manipulation. 3. A very special NUTRIENT SUPPLY COMPUTER DESIGNED IN PARTS PER MILLION (PPM) for each individual. PHOTOTRON. The exact nutrient calibration is individually calibrated based upon two soil samples taken from the plant in the first FIVE DAYS of plant growth and one after 90 DAYS of plant growth — ONLY TWO ARE REQUIRED.

Mr. DeMarco's Master's thesis was on the cannabinoid profile of marijuana. After working under both federal and state license in a laboratory at a major university for over two years, and since 1974 has developed the phototron, the methodology and the chemistry to study the internal workings of the plant, not just the SIZE and WEIGHT, but almost importantly to study the MOLECULAR and PHARMA-LOGIC properties of the plant. The research developed in pursuit of Mr. DeMarco's research PERTAINS TO ANY PLANT.

Pharmacognosy is the study of molecules produced inside plants. This type of study requires very sophisticated equipment like the Gas Liquid Chromatogram, Gas Thin Layer Chromatogram, TLC and Atomic Absorption.

The delta-9, the psychoactive molecule produced by the marijuana plant is so microscopic that 10,000 molecules fit end to end would sit on the head of a pin. When you're concerned about growing structures so infinitely tiny, what difference does the size of the plant make?

In the disciplines of Botany, Horticulture, Plant Physiology, Soil Chemistry and Floraculture, a root to shoot to fruit ratio requires a large root and a large shoot to grow large fruit.

Growing plants Pyraponometrically, by exactly measuring all 21 environmental elements, requires the plant to produce maximum root and shoot inter-nodal lengths and maximize the number of budding sites and size of the bud, flower or fruit. To develop the APHOTOCHRON, the CHEMISTRY and the plant manipulation methodology known as GROWING PLANTS PYRAPONOMETRICALLY, the marijuana plant was used because of its unique properties.

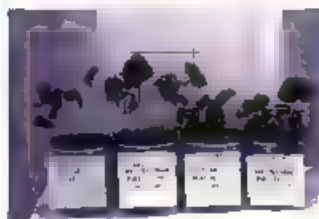
The PHOTOTRON was designed to GROW PLANTS THREE FEET TALL IN 45 DAYS. 1. Duplicate exactly the quality of the plant material, the seed came from 100% FLOWERING AND 100% PLANT MATERIAL EVERY 41 DAYS UP TO 9 TIMES PER YEAR. 2. NEVER KILLING THE PLANTS YEAR AFTER YEAR. 3. BE REMOVED FROM EVERY DAY. The system is designed for plant removal, not containment, and 4. To produce 50 chances of plant material, every 45 days.

Growing Plants Pyraponometrically will revolutionize indoor plant production, as we know it today. At PYRAPONIC LABORATORIES over 25 PHOTOTRONS are used for new experiments. To date PYRAPONIC LABORATORIES have successfully catalogued 7 varieties of flowering plants, 4 varieties of fruits and vegetables, 8 varieties of tobacco and will force flower roses 365 days per year.





### GROWTH PATTERN OF CUCUMBERS GROWN PYRAPONIMETRICALLY



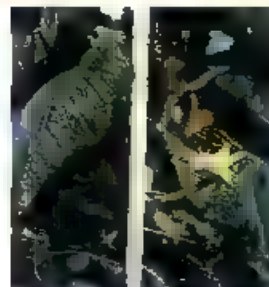
Typical testing pattern by Pyraponic Laboratories depicting the morphological differences of cucumbers grown under identical conditions except one nutrient level.



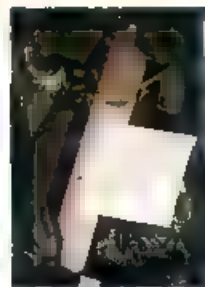
Plants nearing top of Phototron in less than 30 days



Plants filling the Phototron in less than 45 days



Tremendous flowering and fruiting less than an inch apart



Normal fruit with a reduced root-to-shoot ratio

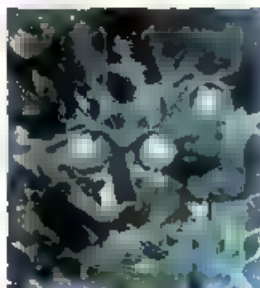
### GROWTH PATTERN OF TOMATOES GROWN PYRAPONIMETRICALLY



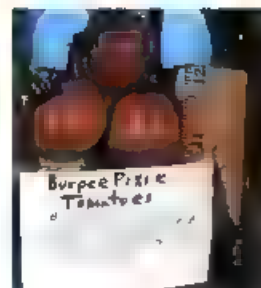
Young tomato plants in vegetative stage



Young tomato plants beginning to flower and fruit



Fruiting less than an inch apart



Normal fruit development with a reduced root-to-shoot ratio

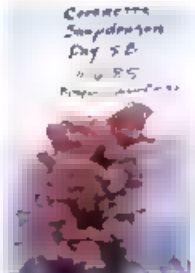


140 tomatoes harvested from 4 Phototrons in 150 days from seed germination

### SNAPDRAGONS GROWN PYRAPONIMETRICALLY

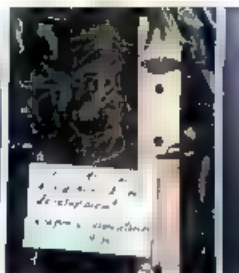


Day 46. Phototron jammed with flowering snapdragons



Day 58 Flower with reduced root-to-shoot ratio

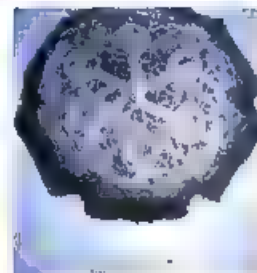
### GROWTH PATTERNS OF ROOT SYSTEMS



Complete root system on the stem structures of flowering marigolds



Pattern depicting the morphological difference of root system



Mycorrhizal inoculated root system in base of unit on day 45

### HERBS, VEGETABLES AND FLOWERS GROWN PYRAPONIMETRICALLY



Day 65. Herb garden of Parsley, Sage, Basil, Thyme and Chive



The hottest jalapa pepper grown anywhere in the world



Corn development under high light intensity of Phototron



Normal salvia still flower after more than 1 year old



Normal marigold size produced with reduced root-to-shoot ratio

## DISPATCHES: Collapsing Colombia

by Rob Hambrecht

Focusing on only those third world news events that are currently and directly related to the United States, American media tends to present a lopsided view of the news from developing countries. Usually, screaming headlines announcing the final destruction of the political infrastructure are the first inkings we insulated North Americans get of the armed conflicts that have been fought—albeit without the U.S. Marine Corps—for many years.

Colombia is a good example. Although the Medellín cocaine cartel, and the cases of Jorge Luis Ochoa and Carlos Lehder, have received ample news space and cover treatment in both *Time* and *Newsweek*, coverage of Colombia's crushing economic problems, protracted guerrilla war, and right-wing death squads, remains minimal—despite the fact that thousands have died as a result of these conflicts. But even though the recently crowned cocaine kingpins do represent one facet of the complex Colombian political picture, the many other power factions, whose origins go back decades or even centuries, form the nucleus of the country's present situation.

Different interests have been fighting for domination over Colombia's treasures for hundreds of years, and the beginning of the twentieth century found the country engulfed in a conflict known as the "Thousand Days War", an internal struggle that cost thousands of lives. The carnage weakened things to such an extent that Theodore Roosevelt provoked an altercation with Colombia in order to seize the newly completed canal in the isthmus of Panama. Forced to recognize the new status quo and bow to the pressure of the big stick, an already debt-ridden Colombia eventually accepted a much needed \$2,500,000 for the lost territory.

A relatively peaceful period followed, during which old rivalries and class differences seethed rather than exploded. But on April 9, 1948, the popular leftist mayor of Bogotá, Jorge Eliécer Gaitán, was assassinated in the street before thousands of witnesses. The assassin, Roa Sierra, was immediately lynched by



ROSA ALEMANY

### *Colombia: tropical paradise or political inferno?*

a mob. The *bogotazo* as the three days of rioting following Gaitán's death became known, escalated into *la Violencia*—a civil war which lasted nine years. At the end of the conflict, Colombia's oligarchic political parties, the Liberals and the Conservatives, formed the National Front—an arrangement allowing them to share power by trading off presidential terms. Local party bosses confiscated land abandoned during the fighting, and the thousands of now landless peasants flocked to the cities, which caused the slums to swell. Some two hundred thousand people died during *la Violencia*, and much of Colombia's present situation, including the origins of such major guerrilla groups as FARC and ELN, can be traced to this period.

The disparity between the nearly half of Colombia's population living in poverty and the small group who hold the greatest concentration of wealth was bound to breed violence. Currently, there are seven major guerrilla groups along with over a hundred paramilitary organizations in Colombia, including drug armies, that are fighting for control of the country (either partial or total). The Revolutionary Armed Forces of Colombia (FARC) which was originally organized in 1949 as a militia to defend the peasants from attacks by the army and

*bandoleros*, has since become one of Colombia's largest guerrilla groups. Founded by Pedro Antonio Marín, aka *Tiro Fijo* (Sure Shot), FARC began by creating the "Independent Republic of Marquetalia", a jungle headquarters which became the target of Gustavo Rojas Pinilla, whose military government was the only break in the Liberal/Conservative National Front pact. Pinilla sent in 10,000 troops in a hapless attempt to nip the movement in the bud. FARC, with the support of the peasantry, repelled the army and maintained control of a large section of the southern departments of Cauca and Caquetá, growing to a size, according to a two-year-old estimate, of 20,000.

In the early '80s Conservative President Belisario Betancur appealed to FARC and other guerrilla groups to go legal. A truce and the formation of the leftist Union Patriótica party resulted from the negotiations—much to the chagrin of the military and economic ruling elite, who opposed any dealing with the guerrillas. In the elections following the Patriotic Union's creation, many of its candidates won political seats, especially mayoral positions. But death squad assassinations of U.P. leaders and supporters put an end to the short-lived success of this new unarmed politi-

*continued on page 30*



# HIGH TIMES

**PUBLISHER**  
ROBERT ARONSON  
**EDITOR IN CHIEF**  
STEVEN HAGER  
**EXECUTIVE EDITOR**  
JOHN HOLMSTROM  
**MANAGER**  
FLICK FORD  
**CONTROLLER**  
SHEILA AVON  
**CIRCULATION MANAGER**  
RAYMOND L. BLACKSTOCK  
**EDITORIAL ASSISTANT**  
ERIC DANVILLE  
**ADMINISTRATIVE ASSISTANT**  
deatrice

## CONTRIBUTING EDITORS

**CULTIVATION**  
ED ROSENTHAL  
**NEWS**  
LOL STATHIS  
**DESIGN ASSOCIATE**  
BRIAN SPAETH  
**BOOK REVIEW**  
BRAM  
**PHOTO**  
ELIN WILDER

**CONTRIBUTING ARTISTS AND PHOTOGRAPHERS**  
ACE BACKWORDS JOHN EDER ANDRE GROSSMANN  
ERIC DROOKER, MILTON KNIGHT  
LENNIE MACE, JAMES ROMBERGER, JEFF VAUGHAN  
J.D. KING, CAPT WHIZZO

## CONTRIBUTING WRITERS

ROBERT CONNELL CLARKE, THE GENERAL  
PETER GORMAN RA JAMES, ESPY LACOPA  
DEAN LATIMER, AID MACSPADE, JAMES MARSHALL  
CARLO McCORMICK, JIM POLING  
KYLE ROO, MICHAEL WELDON

## TYPESETTING

JANIS SHARKEY  
STRONG SILENT TYPE

## STAFF

TIFFANY ANN, JONATHAN DAVID,  
LISA KAY

## ADVERTISING

### EAST COAST

SHERI KAPLAN, MANAGER  
SHERRY LUTZ

**PROMOTION DIRECTOR**  
MONIQUE COPELAND

**NATIONAL ADVERTISING OFFICE**  
211 East 43rd Street  
New York, NY 10017 (212) 972-8484

### WEST COAST

STEVE BECKER, MANAGER

**WEST COAST ADVERTISING OFFICE**  
P.O. Box 33-Suite 373  
Long Beach, CA 90801 (213) 493-3714

## FOUNDING EDITOR

THOMAS KING PORCAGE, 1945-1978

## PISS PATROL SPOTLIGHT ON: CONTROL DATA

by Maura Less

If you're stuck with a drug testing program, one like that of Control Data Corporation is probably the fairest and the best way to go. Unlike Motorola's policy, which we looked at in the April HIGH TIMES, it does not single out drug users for discrimination and let alcoholics slip merrily along—it seems more designed to actually help those with a drug or alcohol problem, rather than extend the long arm of the law.

According to Bob Jones, Director of Corporate Health Services, employee concern over drug use at Control Data plants led to implementation of this policy, essentially an addition to an alcohol-use policy instituted by the company in 1973. According to Jones, employees returning from drug or alcohol rehab programs were afraid that temptation from others would lead them right back to their old problems. Management was initially resistant to the program—they didn't see the need for it, said Jones—but with all the media attention given to drugs lately, they agreed to go ahead with it in March 1987. We could not get independent confirmation of this story, which reeks slightly of Afghanistan's inviting the Soviets in to help govern them—but their policy document does include what is purported to be a letter from an employee asking what Control Data is doing about our horrible drug epidemic, and in the eighties things like this are sadly all too common.

Control Data tests all prospective employees for use of cocaine, methadone, heroin, dilaudid (a synthetic opiate painkiller approximately four times stronger than heroin, according to the *Physicians' Desk Reference*), darvon (another synthetic opiate, slightly weaker than codeine), barbiturates, benzodiazepines (valium and such), methaqualone (quaaludes), codeine, morphine, PCP, and, of course, unfortunately, THC and metabolites.

Before the test, applicants are asked to list the drugs they are legitimately taking Jones says that if someone is on methadone maintenance, or is taking valium for an anxiety problem, it would not make that person a less attractive job applicant. In fact, he says he has personally hired several people on methadone, and it has worked out well for both them and the company.

People already employed by Control Data are not tested unless they are involved in a job-related accident, or unless there is "reasonable cause." Con-

trol Data's policy document defines this as "identifiable behavior or performance results that may cause a reasonable person to question whether the employee is physically or emotionally able to perform his or her job. Such behavior may include, but is not limited to, stumbling, slurred or incoherent speech, apparent disorientation, emotional outbursts, and inability to perform normal job tasks."

An employee found in this state would be taken to the company doctor, who would then decide whether or not to order a drug test. The employee's manager is discouraged from making a diagnosis or suggesting that the employee is on drugs—Control Data quite correctly leaves diagnosis of medical problems to qualified professionals. The employee may refuse the drug test, and one refusal is not enough to put his job in jeopardy. If there is another incident that year, however, and he refuses again to be tested, he can be fired. One positive test, also, does not put someone's job on the line. As above, if there are two positive test results in a year, the employee may be asked to go into the company's rehab program. If he refuses he is likely to lose his job.

Control Data also takes more care than most other companies that their test results are accurate. If there is a positive result for anything, it reconfirmed using the expensive yet highly accurate gas chromatography/mass spectrometry method before it is reported as positive. Thus, false positives are highly unlikely.

As for alcohol use, it is up to the company doctor to order a blood test if he feels that alcohol is what is causing the employee's problem. Again, unlike many companies who have instituted these programs because it is the trendy thing to do, or who use them to decide whom to get rid of when they have to fire some employees, Control Data seems really concerned about their workers' health—and since alcohol-related problems are far more common than drug problems, they have had a program to help rehabilitate alcohol-abusing employees since 1973. They have a twenty-four hour hotline which employees can call for counseling if they feel they have a drug or alcohol problem; such calls do not jeopardize one's job because, "chemical dependency is viewed by Control Data as a health problem that is treatable." Unfortunately, this hotline is also a narcline—employees who see others using drugs at work are asked to call this number to anonymously (if they wish) report them. But, the policy does state explicitly that it does not want managers to act as policemen—and though it reminds them that they may not search an employee, it says that they can search his desk, since it is company property.

continued on page 25

JUNE 1988 • No. 154 • HIGH TIMES, ISSN #0362-630X is published monthly by Trans-High Corporation, Robert Aronson, President • Mail subscriptions (payable in U.S. funds) and changes of address (please include most recent mailing label) a P.O. Box 410, Mt. Morris, IL 61054 • A year 6 to 8 weeks for delivery of first issue or for change of address • Subscriptions in the United States: 12 issues for \$29.95, 24 issues for \$54.95 • Single copy price: \$3.95 • In Canada: 12 issues for \$37.45, 24 issues for \$68.95 • All other countries by surface mail: 12 issues for \$37.45 • All other countries by airmail: \$67.00 • Offices at 211 E. 43rd St., New York, NY 10017 • Second class postage paid at New York, NY, and at additional mailing offices • Manuscripts must be accompanied by a self-addressed stamped envelope • All contributions will be carefully considered, but the publisher and editors assume no responsibility for loss or injury to unsolicited material • Copyright © 1988 by Trans-High Corporation. Nothing in this publication may be reproduced in any manner, either in whole or in part, without specific written permission of the publisher. All rights reserved. "High Times" is a registered trademark. HIGH TIMES and Trans-High Corporation assume no responsibility for any claims or representations contained in this magazine or in any advertisement, nor do they encourage the illegal use of any of the products advertised herein. All advertising and advertised products void where prohibited. Postmaster: Please send address changes to HIGH TIMES, P.O. Box 410, Mt. Morris, IL 61054.

# ONE MAN'S DOPE

## THE BLACK SABBATH SPECIAL

by Dean Latimer

Witchcraft and mind drugs have always gone hand-in-paw. After the Middle Ages, when Catholic Inquisitors and Protestant Reformationists alike were obsessed with determining who The Witches were so that they could be burned, the Flying Broomstick came to be universally acknowledged as tell-tale witchcraft paraphernalia. Women would smear the ends of their magic broomsticks with a salve containing a preparation of mandrake root, introduce it into their vaginas (the male warlocks who presided over them buggered themselves with this magic ointment), and then fly off to their hilltop Black Sabbaths. There, with their enchanted animal familiars alongside, they'd caper and prate in tongues and perform perverted intercourse and blasphemies with Lucifer and Be'elzebub and the gang, until the sun came up. Literally hundreds of different people described precisely this same Sabbath procedure to Inquisition torturers, and the notarized transcripts of their interrogations have been preserved to this day. So of course, these Flying Broomsticks must have been real things.

Then again, there's this funny thing about torture. A torturer can always get his subject to say exactly what he wants him to say, even when the torturer doesn't consciously realize he's suborning the testimony. In the case of witchcraft interrogations, these poor people were simply hauled down to the torture chamber and shown the instruments of pain there—formally placed in *conspetu tormentorum*—and sharply bidden to confess, lest the authorities have to use these awful things on their bodies. But since the poor terrified detainee either didn't know what he was expected to confess to, or confessed to immaterial, unmagical sins (like Sabbath-breaking or poorbox-rifling), of course the Inquisitors were fain to put their victim on the rack, now under *redoubled* suspicion of witchcraft, because he'd refused to admit to it without coercion.

Reading the transcripts of witchcraft interrogations in sourceworks like Charles Lea's *History of the Inquisition*, you can get a perfect idea of how it worked. The preliminary torturing was notably fierce, so that the suspect was perfectly aware of what he'd get if he said the wrong thing under cross-examination. Then, while the subject was kept in some sort of securement that maintained the pain as intensely as

possible, the examiner began asking questions about Flying Broomsticks, magical mandrake ointments, enchanted animals, flying through the air, and so forth and so on. With the poor wretch desperate to confess to anything just to get off the rack or out of the iron hoops, the whole Black Sabbath narrative just naturally developed.

In none of these witchcraft transcripts do the inquisitors show any awareness that they're creating the testimony they're eliciting. They appear to be good, dedicated, honest prosecutors, and whenever a subject denies some particular element in the Black Sabbath scenario, they scrupulously question further. "But if your cat is not an imp of Be'elzebub, Madam, then whose imp is it? Azazel's?" The Inquisitors seem to have simply and honestly been unable to put themselves in the place of their clients—hanging from their elbows tied together behind their backs, in no condition at all to engage in lengthy cross-examination. And so these honest prosecutors of the Inquisition were always able to come up with a good long Black Sabbath confession, correct to every classical detail of the scenario; and they never realized the story was of their own creation.

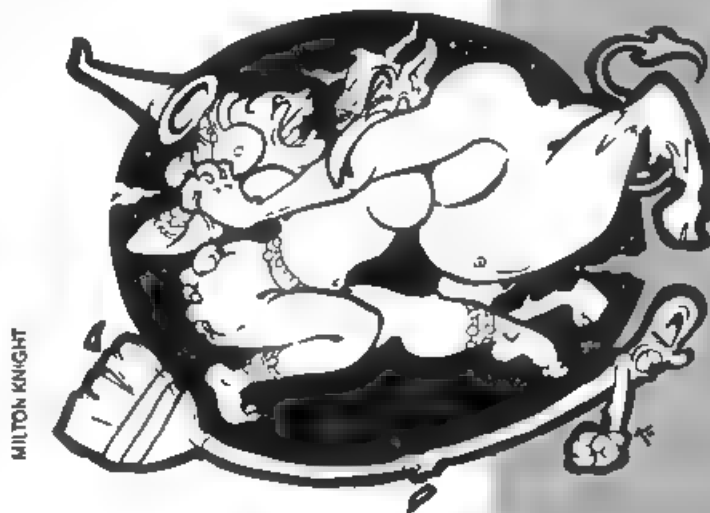
My question has always been, who exactly was it that first dreamed up this phenomenally colorful and complicated Black Sabbath fantasy? There's a clue in the main element of the magic Flying Broomstick ointment—mandrake. Now, mandrake is *Solanaceae* flower, meaning that most parts of it are chock-full of the tropane belladonna alkaloids, atropine, hyoscyamine, and scopolamine, all notably mind-bending drugs. Jimsonweed, the American *Solanaceae* closest to European mandrake, is actually a "controlled substance" in an increasing number of local jurisdictions around the country, because of persistent rumors that "Those Kids" (whomever they may be) eat Jimsonweed flowers to get high. (People who pass laws like that are



blissfully unaware that the potato and tomato plants are both also *Solanaceae*, and their aboveground flowers are just as chock-full of belladonna alkaloids as Jimsonweed or mandrake.)

Now, here in the Underground Empire of the Clandestine Drugs Culture, I've spoken to any number of people who've tried Jimsonweed, and not one of them would ever do it again, not even at the point of a gun. First of all, the belladonnas are terrific antihistamines (they're the main ingredient in plenty of over-the-counter cough and allergy nostrums), and so they dry up every mucus surface in your body, from nose to tushie, leaving you in a state of unalleviated, irremediable thirst throughout the experience (which can go on for days, according to the size of the dose). And after you recover from your immobilized belladonna coma, you invariably have "amnesia for the event"—you can just vaguely recall a prevailing sensation of massive vertigo, or "flying"—and concretely-real hallucinations of animals, most typically enormous, many-colored cats and birds. I figure this is some limbic-system imprint our remotest evolutionary ancestors developed, back when we were lemurs hurtling through the East African treetops and cats and birds were our worst enemies.

*continued over*



MILTON KNIGHT



# ONE MAN'S DOPE

continued from previous page

Survivors of mandrake intoxication also typically vaguely recall communicating with other people, in those faraway realms to which they were flown by the drug. For this reason, throughout history the *Solanaceae*—mandrake, Jimsonweed, henbane—have been greatly prized by witchdoctors the world over, who use them to go into trances to talk to their gods, or to their ancestors, or whomever they conceive those faraway voices to be. The liveliest descriptions of this sort of thing can be found in the rambunctious *Don Juan* series by Carlos Castaneda, whose eponymous *brujo* shaman continually scarfs up Jimsonweed potions, and then goes flying through the night sky with great colorful jaguars and gerfalcons, and always winds up gossiping with his ancestors. Other shamans have claimed to be able to locate lost or stolen valuables, for a fee, under the influence of the belladonnas—and it works like a charm, too, especially when the *brujo* is in league with the neighborhood burglar-fences.

In the Holy Bible, mandrake several times pops up in a distinctly *aphrodisiacal* context. In Genesis, the youthful patriarch-to-be Reuben supplies his mother Leah with a batch of specially-handpicked mandrakes, so that she can whip up an alchemical preparation that will empower the aging Jacob to get another manchild on her. "Thou must come in unto me," she admonishes the old man firmly, "for surely I have hired thee with my son's mandrakes." Later on, in *The Song of Songs*, mandrakes figure prominently among the elements of that most erotic honeymoon hymn: "The mandrakes give a smell, and at our gates are all manner of pleasant fruits, new and old [fermented, that is], which I have laid up for thee, O my beloved."

How people could use the belladonnas as aphrodisiacs is pretty puzzling in view of their antihistaminic properties, presumably only the man imbibed the magic potion, because it surely would have rendered the woman dysfunctionally dry for ordinary intercourse. On the other hand, people's reactions to drugs are overwhelmingly conditioned by what they expect to happen—if these folks were told that mandrake would enhance their sex lives, and believed it without question, then inevitably the drug would have that effect.

In any case, howbeit soever, the people in Europe were still doing mandrake as a sex potion well after AD 1500, when Niccolo Machiavelli composed a rather wonderful bit of stage bawdry called *La Mandragola* (The

Mandrake's Song), to raise bail to get himself out of prison. Machiavelli suffers from a grossly unjust reputation in our society; you actually have to read his masterpiece *The Prince* to apprehend what an infinitely sweet and funny person he was. *La Mandragola* is another item entirely—a spicy little sex farce (it was made into a spicy little Italian movie in 1966) revolving around an elderly Florentine moneybag's anxious endeavor to get himself a male heir on his beautiful young wife by dosing her with a mandrake potion. The point in doing this was not to make her horny, evidently, but to alleviate her barrenness. This was a hangover from Medieval magical thinking, in which physical similarities account for everything—the mandrake plant happens to have an "anthropoform" root, shaped like a little man or woman, with bifurcated legs and little stunted arms. Thus pulling a mandrake root out of the earth was equivalent to giving birth, and so therefore eating mandrake could imbue one with the power of giving birth for real. And it was precisely to wipe out this sort of superstitious logic, and replace it with superstitions all their own, that the clergy after the

Middle Ages instituted their Inquisitions.

Now, by the time *La Mandragola* came out, the good prosecutors of the Inquisition were already torturing out classic, full-blown Black Sabbath confessions: the mandrake goes onto the broomstick, the broomstick goes up the pussy (or the tush, in the case of warlocks), and this abandoned criminal goes flying around the world accompanied by magic animals, and winds up in infernal communion with sundry spectral parties—Lucifer, Azazel, and all of them. So I do suspect that for some good long time before 1500, ecclesiastics of various sorts in Europe were resorting to magic broomsticks to spice up their otherwise-intolerable experience of life in the cloister.

continued on page 25

## HOLLAND TOUR

East Coast Hydroponics is currently organizing the "Too Bad We Have to Leave the Country to Talk Tour" with host Ed Rosenthal. Spend one week in Amsterdam. The cost is only \$950, which includes airfare and hotel. The tour will depart the first week in September. For more info, call 1-718-727-8300.

## A FIELD GUIDE TO NORTH AMERICAN CONSERVATIVES

BY JOE BARTOS

# The Conservative Life Cycle *Part II*



## Childhood

As a child, the young conservative learns to identify different types of minorities and what type of firearms to use when dealing with them. The youngsters receive additional training when playing such neighborhood games as "smear the queer," "rape the poor," and "tie a rope 'round ol' black Joe."

JON GETTMAN



NORML  
NATIONAL DIRECTOR

# NORML-IZER

## COCAINE IS NOT THE ANSWER

In February of 1988 the Attorney General of Colombia suggested that legalizing cocaine might be the only way to put the black market in cocaine out of business.

I disagree. I provided *El Herald*, the Spanish edition of the *Miami Herald*, with the following statement:

"Legalizing cocaine is not the answer. Legalizing marijuana, as the National Association of Financial Institutions of Colombia suggested in 1980, is.

"Marijuana contains a non-toxic drug—THC. An overdose of marijuana produces sleep, not death. The prohibition of marijuana alienates 50 million Americans from cooperating in the fight against cocaine abuse and other drug abuse problems. Legalizing the \$50 billion a year marijuana business provides a cash crop for our hemisphere, financial revenue for government, and increased popular support for anti-drug abuse programs. Perhaps with these new resources the *narcotraficantes* can be neutralized."

I am accused of hypocrisy by some for claiming that marijuana should be legalized and that cocaine should not. In fact, as the failure of the Reagan drug program became more evident early this year, several critics recommended legalizing or decriminalizing all the illegal drugs. Suggestions such as these demonstrate how little anyone has learned from the last twenty years.

The biggest mistake of the current approach to drug policy is to group dissimilar drugs together into one category. The only thing marijuana and cocaine have in common is that they are illegal. In fact, most marijuana smokers dislike cocaine, and vice versa (alcohol is the favored backup drug to cocaine users, it supposedly takes some of the "edge" off the high). NORML's opposition to cocaine legalization, though, is based as much on practical analysis as it is on the sentiments of our members.

People are far too uneducated about the drug to handle it responsibly. Cocaine was used by small populations during the 1970s without much of an abuse problem



developing. In the 1980s, though, when cocaine became widely available and excessively more potent, cocaine abuse became a gripping reality for millions and millions of Americans.

Potency is not a safety issue with marijuana because of its low toxicity. Again, an overdose causes sleep, not death. The danger of a life-threatening overdose is nonexistent.

Cocaine, though, is another matter. As college basketball star Len Bias tragically discovered, the margin for error with cocaine use is pretty slim. One overdose is all it takes to produce death.

The primary concern for allowing availability of a drug is its potential for serious side-effects and/or its life-threatening characteristics. Marijuana can meet that standard. Cocaine cannot.

Frankly, the idea of legalizing cocaine is too radical for our social system to absorb in the near future. It is going to take time for our society to backpedal away from the hysterical and counter-productive attitudes we've had about drug control. Even if cocaine could be legalized and an appropriate educational program designed to minimize abuse, the public is unprepared to assimilate the concept. I'm concerned with our society's ability to

manage social change. A move to legalize cocaine would create divisiveness and confusion which would hamper any attempt to create a national consensus.

Intellectually it is easy to justify a proposal to legalize all drugs. However, the so-called progressive ideal of disinterested experts forming public policy based on proper intellectual positions is what created prohibition in the first place. Social policy, though, should be based on *experience*, not mere ideas.

Doesn't our experience with the illegality of marijuana suggest that the illegality of cocaine is counter-productive? No, I don't think so. The safety issue is one strong argument in support of my position. Also, our society's experience with marijuana shows that its use is relatively benign, whereas our experience with cocaine shows serious problems accompany widespread cocaine availability.

Perhaps I am wrong. In that case, the legalization of marijuana would provide our society experience with implementing a new drug policy from which we could draw upon to devise an effective anti-cocaine policy.

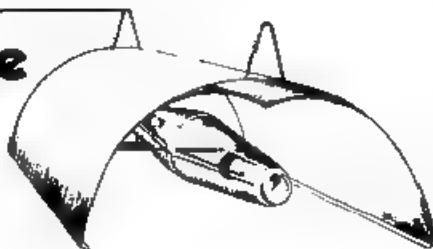
Personally, I speak from my own experiences with cocaine. I haven't taken any

*continued on page 29*

ERIC DROOKER



## It's about time Florida got some help with the sun.



Operating the most successful grow shop in the midwest, you get to feeling sorry for folks in the deep south. All that beautiful sunshine going to waste with no reputable supplier of growing necessities to help them take advantage of it.

**WORM'S WAY** decided to do something about it. One of the country's finest grow shops' can now change the northern winter into a green experience, or help you make the most of southern sunshine.



INDIANA

4620 South State Road 446  
Bloomington, Indiana 47401  
(812) 837-9901

**WORM'S WAY**  
organic indoor/outdoor  
garden supply  
FLORIDA

5311 56th Commerce Pk. Blvd.  
Tampa, Florida 33610  
(813) 621-1792

AUTHORIZED RETAILER for APPLIED HYDROPONICS



## FLASHES

### MEDELLIN MONARCHS

According to a recent report in the extremely reliable *Weekly World News*, South American drug lords are fighting a losing battle against swarms of butterflies that have gobbled up \$37 million worth of local coca plants. Crusading police officials are planning to unleash more of the coke-crazed bugs soon.

### JUST LIKE GRANDMA OWSLEY USED TO MAKE

Prison officials in Spokane, Washington report that after six weeks of extensive laboratory testing, a suspicious dot found on a letter sent to an inmate awaiting trial for murder was probably gravy and not LSD, as had been suspected. Raw-tongued postal employees were said to be disappointed, while inmates tired of receiving slimy letters from home were relieved.

### COLOMBIAN ROULETTE

Luck was not with 26-year-old Everton Reid recently, as he waited for his luggage to appear on the carousel at the Raleigh-Durham (North Carolina) Airport. Just off a flight from Miami, Reid apparently noticed police officials fish-eyeing his bag, so he quick-thinkingly picked up a smaller suitcase left unclaimed from an earlier flight, and tried to stroll off. He was stopped, and when he couldn't adequately explain why the name on the bag he was carrying didn't match his ticket, police opened it, and found a pair of shoes, a hair-dryer, a comb, and—well, lookie-here!—a bag of marijuana. When police opened Reid's actual bag, they found—no how did this get in here?—ten ounces of cocaine. The luckless courier pleaded guilty to two counts of coke trafficking, for which he faces a possible twenty years in the joint.

### SCHOOL'S OUT, ELEC- TORAL COLLEGE'S IN

Rock star/snake-handler Alice Cooper (real name: Vincent Furnier) has announced that he is "definitely a write-in candidate" for governor of his home state of Arizona. Phoenix-born Cooper, who last threw his top hat into the political arena during the 1972 presidential campaign (hot on the heels of his single "Elected"), said "I represent the Wild Party, and I even have a campaign slogan: Alice Cooper—A Troubled Man for Troubled Times." Arizona could do worse—Republican Governor Evan Mecham, who took office in January '87 (and immediately rescinded Martin Luther King Day as an official state holiday) was recently impeached after coming under indictment by a state grand jury for attempting to conceal a \$350,000 campaign loan. ●

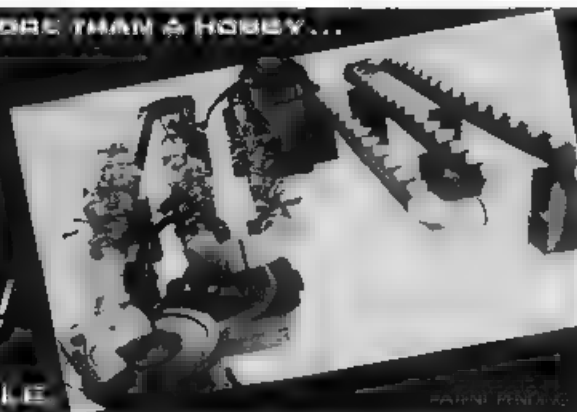
WHEN IT'S MORE THAN A HOBBY...

Kyle Haas's  
**SUPER  
BUDDY**

UNLIMITED  
EXPANSION!

FROM A SINGLE RESERVOIR

PORTABLE



ANY CONFIGURATION - EXPANDABLE RESERVOIR  
98 ADULT PLANT MINIMUM IN 8'x7' AREA - 60 GALLON CAPACITY OR MORE



**GOOD BUDDY MODULAR**  
31"x47"x18" hl. 15 to 25 adult plants  
guaranteed. 15 gallon reservoir

CALL YOUR SPECIAL FRIENDS  
AT HIGHER YIELD FOR ALL  
YOUR GROWING NEEDS!

THE BUDDY SYSTEM bases plants in easily available drinking cups, allowing Perpetual Harvest of individual plants - anytime! No connections! A real Sea of Green!

Roots are directly fed and oxygenated in a closed chamber, for quicker growth, by-passing grow media problems like shifting pH and excess humidity. Fully automated - Minima maintenance!

GOOD BUDDY MOD \$289.00 SUPER BUDDY \$995.00 MC/VISA - C.O.D.

EXCLUSIVE MAIL ORDER CENTER

1-800-451-1852

HIGHER YIELD 712 Wilshire Blvd., Suite 12  
Santa Monica, CA 90401 (213) 394-6777

AUTHORIZED HIGHER YIELD DEALERS

A.H. LOS ANGELES • 4527 San Fernando Rd. Glendale • 818-243-0068

A.H. SAN DIEGO • 127 University Ave. San Diego • 619-296-1779

ROCKY Mtn. LIGHTING & HYDROPONICS • 7100 North Broadway, Suite  
5-S Denver, CO • 303-428-5020

Request your FREE booklet — Guide to Hydroponic Systems.

## ONE MAN'S DOPE

continued from page 22

The broomstick would be the first obvious thing, especially in a nunnery, wouldn't it? As long as there have been nunneries—populated by sweet, slender young teenage novices and fully mature, prime-of-life women, all cloistered together away from men—you know there must have been major broomstick problems. And in monasteries too, for sure a significant percentage of persons of both sexes have always been curiously addicted to sticking things up inside themselves. And since mandrake was renowned in folklore for its alleged sex-enhancing properties, it would be only natural for some of these cloistered masturbators to whip up mandrake ointments and apply them to their broomsticks. And whether they employed vagina or anus, those tropane belladonna alkaloids would sweep through the mucous membrane straight into their bloodstreams, and off they'd go flying with their magic animals to commune with the faraway voices in their heads.

So you have to conclude that there were surely an awful lot of in-house broomstick investigations at cloistered religious institutions right from the beginning, ages before the Inquisition developed this concrete conviction that there were witches in the world, and the overwhelming obsession to identify and burn them. And in order to create those witches—to create the very evidence on which they were convicted and burnt—the witchcraft prosecutors just instinctively reached back into the ugliest secret shame of their cloistered institutions, and projected it all over these ordinary people, generation after generation. ●

## PISS PATROL

continued from page 20

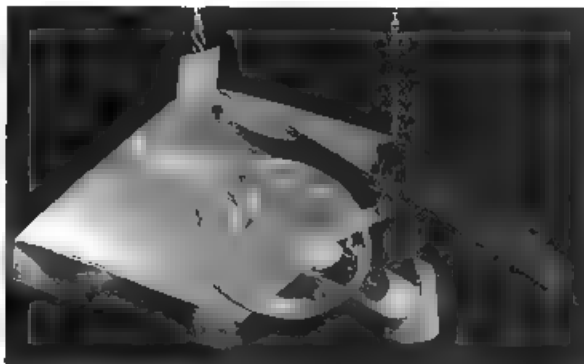
Another less-than-savory part of Control Data's policy is that they fire employees arrested and convicted for off-the-job drug offenses. However, this is true only for felony drug convictions—not just joint-smoking or DWI offenses.

This policy is much fairer than most of the others HIGH TIMES has reviewed. It seems actually concerned with helping those who have a problem, and not solely with weeding out drug-gies—although, unfortunately, it may discriminate against chronic potsmokers, who, even if they refrain for a few weeks, may still test positive. However, Control Data does not create a positive-testee blacklist that sits in company files for six months, a la Motorola. And it does try to help workers with actual problems, instead of just throwing them out onto the street. ●

# NOT JUST HORIZONTAL

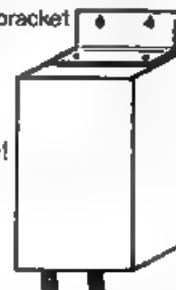
## THE MAXIMUM LIGHT

FINALLY AN INTELLIGENTLY DESIGNED  
NEW LIGHT FIXTURE & BALLAST BOX!!!  
THROUGH RESEARCH & DEVELOPMENT  
WE'VE CREATED THE MOST EFFICIENT  
& LONG LASTING LIGHT ON THE MARKET.



**METAL HALIDE**  
*introductory prices*  
400 W. \$170<sup>00</sup>  
1000 W. \$225<sup>00</sup>  
The hood is computer designed and its open design dissipates heat for longer bulb life

wall mounting bracket



Why do most ballast boxes look alike? They are cheap to make! they don't dissipate heat as efficiently as ours resulting in shorter ballast life. We didn't make a copy of a copy of a copy

THE SAFEST MOST EFFICIENT LIGHT  
ON THE MARKET TODAY

one piece  
all aluminum alloy box



# 5

Convert your light into a MAXIMUM Hood & wiring board make it easy. Call for details and prices.

YEAR GUARANTEE

HIGH PRESSURE SODIUM

*introductory prices*

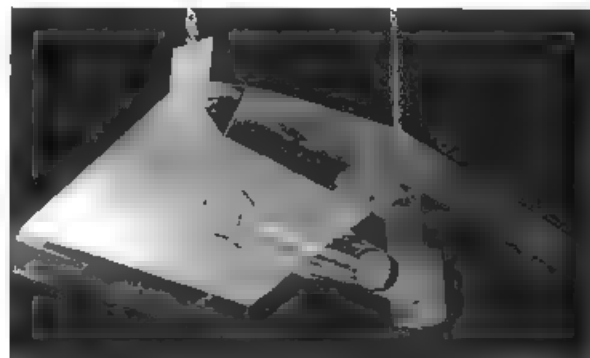
\$210<sup>00</sup> 400 W.

\$300<sup>00</sup> 1000 W.

Only HPS fixtures require the "V" channel. This prevents light from reflecting back into the bulb, increasing lumens and adding to bulb life. 10 foot cord from ballast to socket which is required by ALL ballast manufacturers.

INDOOR/OUTDOOR  
GROWING SUPPLIES

we are very confident about our product. (bulb & ballast carry 1 year manuf. guarantee)



NO HYPE!! YOUR NOT PAYING FOR FANCY  
COLOR ADS WE KEEP EXPENSES DOWN  
WHICH KEEPS OUR PRICES LOW  
AND OUR QUALITY HIGH.

Local N.Y. 718-727-9300

Nationwide 800-255-0121

5 minutes from interstate or ferry.

FREE  
CATALOGUES

**East Coast Hydroponics Inc**  
432 CASTLETON AVE Staten Island, New York 10301



# TRANS-HIGH QUOTATIONS

## MARKET

### Coronado, CA

Afghan: #1 x Skunk #1 in fucking incredible, \$250 oz.

Mexican *indica* "some of the best Mex in a long time a real long stone" \$150 oz. \$300 1/4 lb. \$1000 lb. Crypto (an NL hybrid) "reminds me of hash plant don't drive or operate heavy machinery—no shu." \$400 oz.

*Indica-sativa* from Pa i brook: not as strong as I expected \$125 oz \$275 1/4 lb.

Commercial Mexican quality, varies widely you get what you pay for \$75 oz \$200 1/4 lb. \$575 lb. California Orange "connoisseur smoke" \$185 oz. \$300 1/4 lb. \$875 lb. Mushrooms "fresh from Corvairs—Liberty caps, \$130 oz. LSD white blotter "from Ven ura—could be a little cleaner" \$5 hit \$150 sheet.

Cocaine, pink shale rocks are unusually hard \$100 gm \$200 1/4 oz. \$900 oz. \$15k kilo. Methamphetamine "solid glass rocks, pharmaceutical quality" \$80 gm \$800 oz. negotiable lb.

### San Jose, CA

Crown commercial "The decent quality few seeds." \$160 oz. \$1800 lb.

Mexican *indica* lime green, great bang for the buck, small dense buds. \$125 oz. \$1400 lb. Mexican green buds "very airy tops, immature but smokes good," \$85 oz. \$800 lb.

Indoor hydro grown *indica sativa* "electric and aphrod. sac high; it's almost too potent." \$15 gm.

Afghan hash "looks and tastes great but the buzz, don't get burned." \$10 gm \$900 lb.

### Pomfret, CT

Black Hawaiian hash "kick ass, super high" \$10 gm; \$250 oz.

Red-haired Sinse "mellow high, \$45 1/4 oz. \$160 oz. Shrooms "good trips, fresh from the zoo," \$45 1/4 oz. \$150 oz. Cocaine "good rock, good count, good blow!" \$300 1/4 oz.

### Melbourne, FL

Sinsemilla all bud. \$35 1/4-oz. \$875 lb.

Sea Weed "smells and tastes like bong water but it does the job." \$65 oz. \$20-30 1/4-oz.

Palm Bay Homegrown "tasty" \$65 oz. \$30 1/4-oz. LSD blotter "very hard to find." \$7 hit.

Cocaine "lots around, try before you buy," \$75 gm. \$200 1/4-oz.

Satellite Beach Sinse, "tasteful." \$120 oz. \$40 1/4-oz.

Melbourne Homegrown "very clean, smooth and sweet." \$130 oz. \$40 1/4-oz.

### Port St. Lucie, FL

Skunk Buds "strong smell, excellent buzz." \$40 oz. \$40 1/4-oz. \$400 1/4 lb.

Green Jamaican "very stoney, good smell, very sweet." \$100 oz. \$35 1/4-oz. \$325 1/4 lb.

Brown Buds "when you are desperate" \$70-80 oz. \$25-30 1/4-oz. \$225 1/4 lb. LSD white blotter "globes, gold stars, musical notes, blows you away every time" \$6 hit. \$300 100.

HIGH TIMES "always a good buy" \$3.95 each.

### Carbondale, IL

Red-hair sinse available everywhere "real nice buds, with a real good buzz." \$110 oz. \$30-35 1/4-oz. \$1200 lb.

Brown Colombian "same boring stuff." \$20-30 1/4-oz. Acid "zillions of different blotter available but I want some good shu." \$3-5 hit. \$150-250 sheet.

Shrooms "real good 4-5 hour trip." \$6-10 gm. \$30-40 1/4-oz.

Cocaine "very good wire, best I've had in a while. lotsa rocks!" \$100 gm. \$250 1/4-oz. \$450 1/4-oz.

### Albion, IN

Homegrown skunkweed "great" \$35 1/4-oz. Pressed Colombian "excellent buzz for work or fuckin' around." \$40 1/4-oz. \$120 oz.

Colombian brick weed "paralyzing buzz." \$40 1/4-oz.

Brown Sinse "mystery pot good buzz." \$40 1/4-oz.

Brown mystery weed "kicks your ass and spits in your face." \$45 1/4-oz.

Shrooms "awesome natural trip." \$8 gm. \$50 1/4-oz.

Black hash "good shit," \$9 gm.

LSD: black and gold stars "pretty clean stuff," \$7 hit.

Send quotations to: THMQ, 211 E. 43rd St., New York, NY 10017. THMQ is intended solely for informational purposes. All entries should be typed or neatly written: If you are unable to compose a legible entry after testing your samples, please wait until you have control of your penmanship before sending us your information. Marijuana is listed by 1/4-ounce, ounce, 1/2-pound and pound prices only. Don't bother sending prices for hard drugs. Prices in this issue are current as of March 16th, 1988.

Cocaine "70-80% pure—gets you off!" \$100 gm.

### Hart, MI

Red-haired sinse "long buzz" \$30-35 1/4-oz. LSD: a bum covers real good stuff" \$4-5 hit.

### Minneapolis, MN

Killer Mexican "good stoney high." \$30 1/4-oz. \$100 oz.

Brown hash weed "sweet hashy taste up high." \$35 1/4-oz. \$125 \$35.

Brown hash "very moist rare, sells fast" \$10 gm. \$125 oz.

R A V O T "seedy buds, lotta shake, but still gets you off with one joint" \$35-40 1/4-oz.

Mushrooms "very dry, very high" \$10 gm. \$240 oz.

### Pike Co., MO

*Indica* Ganja cross "smells, hound dog eyes, gives a big ol' kype (kype to get high: a buzz)." \$45 1/4-oz.

Colombian Big Leaf ganja cross, "dead dog dope, been through hell but it still kypes." \$70-100 oz.

Killer Green "excellent, not worth the price." \$130 oz.

Seeded Hacker "creepier killer kype, big bags needed for planting time," \$80-100 oz.

Wintergreen Buds "killer kype" \$150 oz.

Afghan, Jamaican Brown "gooner, imported, extreme buzz" \$200 oz.

Sinse/Ganja cross "dense and aromatic" \$100 oz.

Pure MJ sinse Sinse stoned. \$100 oz.

Skunk Cedar Buds "hard to get, but well worth it com atose." \$120 oz.

Skunk "one tokel!" \$160 oz.

Local indoors "tastes almost menthol, good buzz, goes well with cartoons." \$125 oz.

Thai Weed "people are quite proud of this." \$65 1/4-oz.

### Paterson, NJ

Arizona skunk "scarce; 1/2 joint and you're stoned" \$40 1/4-oz.

Green bud "long ride to get, but worth the trip" \$30 1/4-oz.

Red-haired sinse "good buzz, no seeds." \$50 1/4-oz.

NYC weed "tastes like shit, nice count" \$20 1/4-oz.

Homemade hash "no buzz don't waste your money" \$10 gm.

LSD: clown, red stars, \$4 hit.

Purple mescaline "good trips" \$3 hit.

### West Seneca, NY

Dark green sinse "few seeds and satisfying" \$30 1/4-oz.

Crank "tasty and rare" \$25 1/4-oz. \$100 gm.

LSD: double print, a twirly tale great "3-4 hit." \$100 sheet.

### Reno, NV

Thai "w-toke dope, best yet in Reno." \$65 1/4-oz. \$220 oz.

Thai "better than average" \$65 1/4-oz. \$200 oz.

Black oil-based hash "hard to find but worth the look." \$10 gm. \$55 1/4-oz. \$200 oz.

Bolivian coke "major kick-ass, close as you can get to pure" \$175 gm.

Purple shrooms "good trip but not worth the look or the price." \$10 gm. \$55 1/4-oz.

### Columbus, OH

Afghan Hindu Kush *indica* from the hash plant in the Khyber Pass region. \$240 oz.

Cylinder-shaped pressed *sativa* "very sweet and aromatic with an intense stoney buzz." \$160 oz.

Cocaine "100% rocks, 94% purity, deftly from Peru." \$100 gm. \$1800 oz.

### Allentown, PA

Skunkweed "PA's best, one hit and you fly." \$220 oz.

Acid: clown "good shit, check yourself into a psych ward." \$4 hit.

Shrooms "shrooms zoom zoom." \$10 gm.

Black Hash "I've smoked better" \$10 gm.

Cocaine rocks "lots of them." \$80 gm.

Sinsemilla "one bong hit and you're toast." \$120 oz.

Lumbo "shit dope lawnclippings got me higher." \$55 oz.

### Beaver County, PA

Green red/orange haired semi-sinse to pure Mexican sinse \$1200-1500 lb.

Mexican Skunk/indica "killer taste." \$1700-2000 lb.

Commercial Thai "good power, rich like Colombian of the old days." \$1700 lb.

Brown Mexican Sinse \$1100 lb.

### Reading, PA

Red-haired Jamaican bud "scrape me off ceiling!" \$35 1/4-oz.

### Harrisville, RI

Hawaiian pure *sativa* smells fruity " \$250 oz. \$2400 lb.

Skunk #1 "great shit." \$200 oz. \$2000 lb.

Thai sativa "dreamland" \$65 one.

Afghan "mega body buzz." \$190 oz. \$2000 lb.

LSD: 15 different types, \$2-5 hit.

Cocaine "94% pure, super brain trying shit" \$250 1/4-oz.

Crystalline meth "clean and sparkly good piece." \$50 gm. \$130 1/4-oz.

Shrooms "7-9 gm."

### San Antonio, TX

Skunk "A-W-E-some!" \$35 1/4-oz.

Mexican Sinse "good and sticky" \$30-50 1/4-oz.

Homegrown dir-weed "might as well flush down the toilet." \$25 1/4-oz.

LSD: clownface "goofy and weird." \$5 hit.

Musica "note at least 13 hours." \$5-6 hit.

Shrooms "wow!" \$6-7 gm.

Cocaine "risky to get" \$100 gm.

### Lorton, VA

Slightly seeded *sativa* stonin smoke \$35-40 1/4-oz. \$120-130 oz.

Hash "sorta rare" \$40 1/4-oz.

Shrooms "pinch goes down, quantity goes up, way down!" \$35 1/4-oz.

Coke "buy quantity go yellow" \$275 1/4-oz.

# TRANS - HIGH MARKET LETTERS



## CONNECTICUT

Right on to the letter by the Coca Bolas! White powder coke is the biggest ripoff—unlike marijuana, which is a fair value. I have nothing against cocaine per se, and have always wondered that if its weird white powder form and use was so great, then how come caffeine users don't snort crushed up Vivarin pills?! Fuck Ronald Wilson Reagan's goons wherever they are, boycott their cracked up PERVERSIONS of Coca's stimulant (an inherently far better stimulant than caffeine) and grow Mama Coca yourself for your own real fine wine.

Gatekeepers of God's Green Plants  
Greenwich, Connecticut

## FLORIDA

Let me start off by saying that I'm employed by the U.S. Government. You might say my job is one of research. Others and I grow and harvest cannabis for Uncle Sam. Our primary goal is to find ways to wipe out cannabis without destruction of other plants or lives.

The chemicals we develop are first tested in the lab and if the results are fair (meaning less than 20 lives—an animal or human—will survive if consumed) we test it on our national forests to help fight the unwanted growers. Uncle Sam figures that national forests are all his and he can test any chemical he chooses on them. I do not know exactly where it is used but I have seen and read test documents from areas that have been sprayed. Nothing ever becomes of any deaths because they are blamed on a bad batch of marijuana.

It would turn your stomach if you knew the severe pain and suffering that an animal or human would experience if they consumed some of the chemicals we have developed. Some of these chemicals have been sprayed at night on and around small towns. I'm told no one notices this because the chosen towns have mosquito control equipment that draws no attention.

I wish you could see the money and the equipment our Uncle Sam has put into growing marijuana. The best part is we have been sent copies of your magazine so we can use the growing tips.

There have been tours made of our lab and some very important people in our government have been there. We have found that there are good medical uses for cannabis, but to qualify you must be an important person. Funny, isn't it, that

the American public pays for it but cannot use it even if it saves lives?

I just wonder if any of the chemicals I've developed have ever been used to harm anyone. I sincerely hope not. The money used here could take care of a lot of homeless and feed their families. The medical uses could save a lot of lives, not just a special few. The government has become obsessed with finding out who is growing large crops so they can make a big show. They only have to look in the mirror to find the real criminal.

I will try to send you proof of this lab. If you have any questions, I will try to answer them. Just print them in your letter column to "Professor Cannabis." It will be hard to be very specific but I will try my best to answer.

Sincerely,  
Professor Cannabis

## MAINE

Some of your readers are really fucked. I was reading THMA in the March issue and the "MORE Brother's Assoc." cut down the use of coke. People who don't use coke should not praise the gov't for busting us. That's the same as someone who drinks cutting down people who smoke pot. Get your fucking heads out of the clouds. Three letters later, "Jolly Green" touches on that same subject. But "Jolly Green" knows his shit. I stopped snorting coke a long time ago, but that doesn't mean I don't still use it. I've been drinking it, just like "Jolly Green." Remember—if we don't stand together, we will all hang separately. I don't take every drug that's available. For instance, I stay away from opiates, but don't put down people who use them. If we don't stick together, we're just as bad as the hypocrites who put all of us down. Incidentally, when the Gorbachevs came over here did you catch the part where Nancy talked to Raisa about the "drug problem" over COFFEE (caffeine)? Where the hell do you double standard people get off?

Totally pissed off but  
loving my brothers and sisters  
Bath, Maine

## MINNESOTA

**SMOKERS UNITE:** I've been reading your magazine for 2 years and I've got to say that I'd never be able to do it without your mag.

I started a few times before I'd ever seen your magazine and all I got were some scrawny, short plants that never lived to maturity. In the past 2 years, I've tried everything I've seen in print about improving my crops. I've taken notes and tried a few of my own experiments and I've got a couple of tips of my own. I'd like to suggest to your readers that they get more involved with the magazine and to send in more photos and letters, and also to send in their membership dues to NORML, a very worthwhile cause. If we really do want to see the legalization of marijuana for personal use, we've got to all do our share, or that dream will never become reality.

It's easy to see that everyone at HIGH TIMES is doing their share, and I'm proud to say that I'm a

member of NORML, and a subscription holder, and a very prosperous grower and I owe it all to a fine group of people who feel strongly enough to give their time and effort to a cause they believe in. There isn't enough dedication on behalf of the marijuana smokers as of yet. If you don't think you can really make a difference, think again—you can. If nobody thought they could make a difference in the eye of the public, well you wouldn't be reading such a fine magazine right now, would you? Let's all unite and send a letter to your congressman, or give financial support to NORML or OMI. We've got to start somewhere, right? Keep up the good work, and you'll be hearing more from me in the future.

Bilbo Baggins  
Farmington, Minnesota

## OHIO

I would like to issue a challenge to all those heads out there who use this fine green herb. The "Ganja Gods" gave us. You're all complaining that you would like to see something done, so here's your chance. Be like me next time you harvest an indoor or outdoor crop—donate the money you get from one of your 1/4-oz sales to the cause. If you're not a grower and just a user then only buy 2/3 what you normally buy and donate the rest to the cause.

Me and a bunch of my friends are talking about starting a chapter of NORML in our area. If we can get enough interested parties.

Hell yes, we're scared of losing our jobs and our friends who are not heads but if we don't stand up who will?

Getting high with happy friends  
South Eastern, Ohio

P.S. Keep up the good work and may you be high and happy.

1987 proved to be a very devastating year. I didn't get busted but close to it. Thanks to the County Mounties, 131 beautiful ladies hit the incinerator!! It was my first attempt at growing that many and I had just yanked all my males. Ninety of those females were Hawaiian and the rest were Skunk, all were just starting to bud real pretty. But they didn't get them all. They left me a small five-footer. 1988 has got to be a better year for me. I'm planning on the same amount or more! Hopefully, growing will be legal real soon!!

Stony Bud  
Spencerville, Ohio

P.S. Keep up the Good Work HIGH TIMES. Your mag is great!

## NEW YORK

I'm an outdoor grower in upstate New York. Last year I was hoping to find some information about fly over dates in your magazine.

Are there any underground publications or is there anybody out there who knows about this?

Remember, this is an election year. Growers should be extra careful.

C.M.  
Central N.Y. ●



## TAKE THE BEST LIVING SYSTEM FORGET THE REST

**Living System** is more than just a growing apparatus. It is a scientifically proven approach to horticulture so fool-proof even first time users will achieve guaranteed minimum yields. But most important is that many customers nationwide over the last six years continue to enjoy the benefits of lush indoor gardens all year round. They report greater yields and higher quality in less time. Bottom line is quicker return on time and investment. See why more and more indoor growers are taking their needs to **Light Mfg. Co.**

### Suncircles

- 1 Light System 8 x 8 room. 139.95
- 2 Light System 10 x 10 room. 189.95
- 3 Light System 12 x 12 room. 249.95

### Lighting

- 1000w Metal Halide w. parabolic reflector 189.95
- 1000w HP-S w. parabolic reflector 259.95
- 400w Metal Halide w. 2 cone reflector 139.95
- 175w Halide or 150w HPS mini-horizontal light 109.95

### Living Systems

- Basic System includes Heart, six (6) cells and Nutrient Supply Center 181.00
- Expandable to 72 cells, with 6, 12, and 18 cell kits
- Six (6) cell access kit includes: pump, timer, nutrients, pH up, pH down, pH adjustment dispenser, bloom builder, rockwool, and pH test kit 117.00
- Basic System and Access Kit 264.49
- Twelve (12) cell system with accessory kit 342.30
- Thirty-six (36) cell system with accessory kit 659.90
- Sixty (60) cell system with accessory kit 999.95

All Systems and access kits are discounted 5% when purchased together.

### CLOSET SYSTEM

- Six (6) cell Closet system expands to Living System with Heart and Nutrient Supply Center. Includes pump, timer, nutrients, pH down, rockwool, 6 Living System cells. 149.90
- Ten (10) cell Closet Nursery includes 10 Living System growth modules, pump, timer, nutrients, pH down, rockwool, test kit, reservoir tray. 149.00
- Closet system with mini-horizontal 264.95

### CREATE YOUR OWN CUSTOM SYSTEM

- All Living System components, accessories and parts may be purchased separately for those who wish to create their own custom or experimental growing system.

### FREE PHONE CONSULTATION

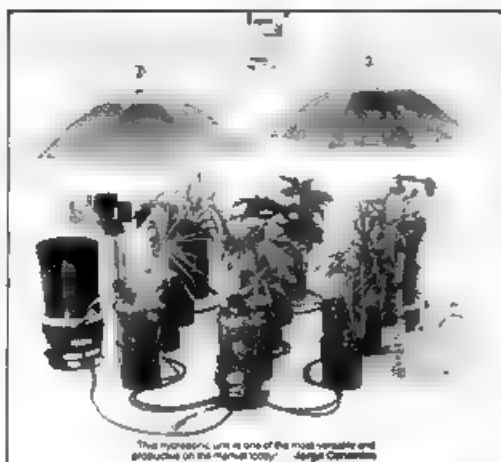
- Feel free to call us at (503) 231-1582 with your indoor growing questions. One of our experienced consultants will gladly assist you. Visit our showroom today for a demonstration of our continuous production system and a look at our line of horticultural products.

### SAME DAY SHIPPING SERVICE



FREE CATALOG

DEALER INQUIRIES WELCOME



This hydroponic unit is one of the most versatile and productive on the market today! -Jerald Coleman

### CELL

- Individual and interchangeable growth modules, shut-off clamp with easy disconnect. \$11.00

### NUTRIENT

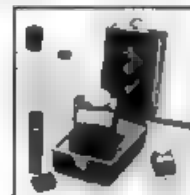
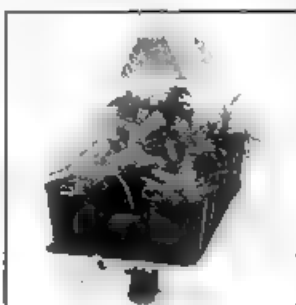
- Adjustable nutrient flow, automatic flush and drain; total nutrient recirculation. \$55.00

### NUTRIENT SUPPLY CENTER

- Five gallon mixing reservoir, nutrient level regulation, reservoir expansion port. \$50.00

### CO<sub>2</sub> INJECTION SYSTEM

- Complete with timer and instructions. \$149.90



### ELIMINATE GUESSWORK

Follow our recommendations with precision by using our Professional Parts Per Million (PPM) Meter with padded case and standard solution to monitor nutrient concentration for only \$179.90. And our electronic pH Pen with standard solution to check system pH for only \$64.90.

Free estimates given on complete systems including lights, timers, fans, CO<sub>2</sub>, nutrients, pH adjustment, reflectors, mylar, and rockwool.

30 DAY MONEY BACK GUARANTEE

CALL NOW TOLL FREE AT 1-800-NOW-LITE  
Light Manufacturing Company 1634 S.E. Brooklyn, Portland, OR 97202

## LETTERS

continued from page 14

### LSD DEFENSE

"The Last Defense of LSD," (February '88), wasn't, really. The article was just one more attack from one who doesn't understand what the acid experience was all about. There are many interesting theories about how the drug culture came to fall apart and leave us with a generation of yuppies who think Ron Reagan is the reincarnation of John Wayne, and Pat Robertson is Jesus. What the hell happened to the power of creative energy? Joseph Lanz hasn't got a clue. We might hope for better from HIGH TIMES

—M.Y.

Paso Robles, California

I am in major disagreement with "The Last Defense of LSD" by Joseph Lanz. I got the impression he had a hidden agenda: the acceptance of his own homo- or bisexuality (It did say at the bottom of the last page that he was also authoring a study on foot fetishism.) Lanz alleges that "borderline homoeroticism" was one of the core elements of psychedelic music. I strongly disagree. The point of hippie love-ins was to attain a more perceptive consciousness. Such higher clarity involves the upper chakra energy centers along the spine. Sex and violence come out of the lower (red) chakra, which is centered in the groin. At various love-ins and other LSD activities (at least the ones I attended), there was a strong feeling of trust, kindness, and tenderness. I feel this is what psychedelia was all about. It's gonna take a new generation of young people to revive this spirit.

—M.G.

Los Angeles, California

### BAD VIBES

What happened to the request for "No Bad Vibes Please" in the Top 100? Did you change the rules specifically for the people who don't appreciate the Grateful Dead? As far as I'm concerned, these people can suck slimy green donkey dicks. Why can't anyone just respect other people's tastes? All I can say is "ain't it a shame?"

—Dedicated Music Fan  
Waterford, Wisconsin

continued on page 76

## SPEEDBUD HYDROPONIC systems

quick... Buds in 90 days from clones

easy... All you need is light and seed

cheap... Under fifty dollars

discrete... Fits in a clothes closet

guaranteed... Period

We can't tell you all about it here, but call or write and we'll send you a package that will, free! After years of experimentation, we have the right combination of nutrients, techniques, media, and materials to make your growing efforts count. Call now - it doesn't cost anything to find out!

[503] 883 8498 P.O. Box 7148, Klamath Falls, OR 97602



# NORML-IZE R

continued from page 23

in a long time I don't see it at parties, and most of my friends lost interest in it long ago. My friends and I all share memories of cocaine becoming an unwelcome obsession. We rejected it because we saw it making us greedy and self-centered, not to mention its outrageous cost.

Most marijuana smokers know a lot about cocaine, because they've observed its use for a long time. They oppose cocaine legalization for the same reason much of the public does: they've experienced cocaine and their reaction is "No thank you." Sadly, the War on Cocaine is one anti-drug program a majority of Americans would support, and make successful, if it were not for the case of marijuana prohibition.

When the "drug problem" is discussed nowadays, all the evidence provided concerns heroin and cocaine abuse, and to a lesser extent, PCP. Yet most of the tactics employed in the Drug War target marijuana smokers. Urine testing, for example, detects marijuana users and overlooks cocaine users on account of the biochemical trails each leaves in the body. Marijuana use can be detected a month after the fact, whereas evidence of cocaine use is only detectable three days after the fact. Consequently, even random testing misses most cocaine users.

Marijuana users resent being scapegoats for failed government policies to deter drug abuse. That resentment must be addressed if the United States is ever to have a successful drug policy. At present, no political leader has had the integrity to address that resentment, and the problems which stem from cocaine abuse continue to mount.

The legalization of marijuana would restore credibility and widespread support to the fight against drug abuse of all kinds. It would be consistent with our public policies for alcohol and tobacco. It would be a productive compromise.

However, my critics are skeptical about my claims of marijuana smokers' disdain for cocaine abuse. I'd like to hear from you. Are you willing to join the fight against cocaine in exchange for the legalization of marijuana? ●

(REMEMBER: NORML's annual convention convenes this June 17 in Washington, D.C. For info on this, and also on how to join the fight against pot prohibition, contact: NORML, 2001 S Street NW, Suite 640, Washington, D.C.; phone 202-483-5500.)

IN THE GARDEN OR ON THE STREET.

## WOULDN'T YOU RATHER SWITCH THAN FIGHT?

EDGE COMPANY KNIVES  
GIVE YOU THE EDGE!



Genuine, Automatic  
and Completely Finished  
Made in Legal Kit Form!

SWIFT, SILENT  
AND  
READY WHEN YOU ARE!

AMAZE  
YOUR  
FRIENDS

As  
Low As  
**\$14.95**



**THE EDGE COMPANY**

P.O. BOX 826  
BRATTLEBORO, VT 05301

TO ORDER  
CALL TOLL-FREE

**1-800-445-1021**

OR SEND TO:

GET A CONVERSATION PIECE  
**FULL AUTO**  
Fully Automatic Knives  
Ready at the Touch of a Button  
GET YOURS AND GET THE EDGE!

### Model 108N.

The most popular automatic in the world. Gun metal black covers and caps, Stainless Steel blade, front opening at the touch of a button 8". Also, 108c (camo handle) \$14.95

### Model 817.

Gleaming Brass and Rosewood. Brushed Stainless Steel blade. Brass lined handle. Automatic side opening at the touch of the lever 8" **\$29.95**

### Model 120.

Classic. Beautifully handcrafted in Italy. Brass liners. Stainless Steel blade. Side opening at the touch of a button. Available in White, Black, Red, Blue, or Green. Pearls. 8 1/4" **\$49.95**

\*Also Collectors and Sportsmen. Though legal in parts form, in certain areas the completion of these kits may violate certain laws. Please check your area before ordering or assembling, as compliance with any such law is the purchaser's responsibility.

THE EDGE COMPANY  
P.O. BOX 826, BRATTLEBORO, VT 05301  
**1-800-445-1021**

Please Ship The Following Items:

Model # \_\_\_\_\_ Qty. \_\_\_\_\_

Model # \_\_\_\_\_ Qty. \_\_\_\_\_

Model # \_\_\_\_\_ Qty. \_\_\_\_\_

Colors \_\_\_\_\_

Add \$1.50 Per Kit Shipping and Handling

Check or Money order Enclosed \$ \_\_\_\_\_

MasterCard # \_\_\_\_\_ Exp. Date \_\_\_\_\_

VISA Card # \_\_\_\_\_ Exp. Date \_\_\_\_\_

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

I Certify That I Am Over 18 Years of Age.

Signature \_\_\_\_\_

INQUIRE ABOUT SPECIAL DISCOUNTS FOR  
GROWING COOPERATIVES HS-06

IRON-CLAD MONEY-BACK GUARANTEE:

IF YOU DON'T LIKE IT, SEND IT BACK FOR FULL REFUND. NO QUESTIONS ASKED



# HIGHWITNESS NEWS

continued from page 19

cal party. The "dirty war" has already caused over eight hundred deaths in the U.P.'s ranks over the last two years, including its leader Jaime Pardo Leal. The situation resembles that of Argentina's *guerra sucia*, as many Colombians have begun to "disappear", and prominent politicians, journalists, human rights activists, and even some popular entertainers, have received death threats. The new president, Virgilio Barco, has chosen to give the military a free hand in dealing with the peace negotiations with the guerrillas, while he concentrates on less complicated legal problems. Death-squad intimidation resulted in low voter turnout during elections last March as many U.P. supporters stayed away from the polls fearing reprisals. The leftist guerrillas who laid down their weapons to go legal (and subsequently face extermination) will probably come to the conclusion that the elections don't work and

that they must take up arms again. The military already sees the situation as a state of war, and with no solutions in sight the nearly forty-year-old conflict can only intensify.

But as if having a politically wrenched country with myriad armed insurgent groups and marauding death squads weren't enough, Colombia also has the cocaine moguls of the Medellín cartel. The natural offspring of an illegal business which has become Colombia's biggest export, the cartel—responsible for an estimated 70% of the cocaine entering the United States—has transcended being a mere crime syndicate into actually vying for power with Colombia's political oligarchy. Cocaine cash not only equips armies of assassins—such as those that recently murdered former Colombian Justice Minister Rodrigo Lara Bonilla—but also buys off entire sectors of the police, military, and political establishments. The names of opponents who are not for sale appear on death lists and are systematically eliminated although a newcomer on the

political scene, the cartel's power is nothing to snort at. A few years ago the cocaine kings offered to pay off Colombia's \$11 billion foreign debt, and to blow the drug biz in return for an amnesty and guarantees against extradition to the United States. Only then did President Belisario Betancur hold his line and refuse the deal. More recently, the new Colombian attorney general's announcement that the legalization of cocaine will be considered is another reflection of the cartel's powerful leverage. Obviously, these sovereigns of snort are a force to be reckoned with, but they represent only one part of the overall Colombia picture.

So many people have said that Colombia's democracy cannot survive, that it's become a cliché. But given the chaotic and violent situation a radical change could come at any time and from any part of the political spectrum. And whether the government falls to guerrillas, cocaine, or a right-wing dictator, the transition will probably not be a peaceful one. ●

## FIREFIGHTERS STUMBLE INTO BLAZING BOO-BASEMENT!

Alaska firefighters are racking up a better record than local cops when it comes to uncovering this state's proliferation of indoor pot plantations. According to Wasilla Fire Chief Jack Krill, faulty amateurish wiring jobs are responsible for many of the fires that burn down electricity-intensive grow rooms here in the Land of the Midnight Sun.

"Guys go in and they splice, cut, and piece the wiring together," the Chief told reporter Julie Sullivan of Alaska's *Frontiersman*. "It's obviously not up to state standards."

Last December, fireguys tumbled onto a flaming grow room on Gail Drive in Wasilla, and turned over an estimated \$5,000 worth of marijuana to authorities. More recently, an alarm from a burning two-story house on North Birch Harbor Road brought firefighters into an inferno-hot basement grow room festooned with 62 large pot plants. Thanks to the building's fire-containing slab tin roof, a "flash-over" occurred—which means a heat buildup of such intensity that a room's contents spontaneously burst into flames. "It was between 600 and 1,200 degrees in there," said Krill. Fire Officer Jim Malapanes suffered minor burns on his arms when the plastic sheeting that had been covering the plants melted onto him. Four hours later, after the fire was extinguished, Troopers were able to enter the house and fill four large garbage



bags with contraband—comprised mostly, to their chagrin, of naked plant stalks, as the farmer had apparently just harvested his crop. Four pounds of smokable weed was recovered, however, which the lawmen slapped with a \$12,000 street value (good shit, evidently). No ar-

rests were reported (Alaska state law permits ownership of up to four ounces of pot for personal consumption.)

All we can say is, in the interest of your safety (and your harvest's), watch those electrical hookups, boys and girls.

—LS



Howdy, pardners!  
Out here on the  
Cross Breed Ranch,  
when I'm not busy  
workin' on my  
harvest, I ride high  
in the saddle with  
the latest copy of  
**HIGH TIMES**. It's got  
the best tips on  
plantin' and growin',  
plus news, tunes and  
comix! And I don't  
have to worry about  
no revenuers beatin'  
on my door, because  
the **HIGH TIMES**  
subscription list is  
totally confidential!  
So don't miss out on  
any **HIGH TIMES**,  
pilgrim...subscribe  
today!

**CALL TOLL FREE  
FOR ORDERS ONLY**

800-435-0715

In Ill. 800-892-0753



- ☐ Payment enclosed  
☐ MasterCard ☐ Visa

Card # \_\_\_\_\_

Expiration date \_\_\_\_\_

Signature \_\_\_\_\_

**UNITED STATES**

- ☐ 1 YEAR \$29.95  
☐ 2 YEARS \$54.95

**CANADA & FOREIGN**

- ☐ 1 YEAR \$37.45  
☐ 2 YEARS \$68.95

**HIGH TIMES  
SUBSCRIPTIONS**  
P.O. BOX 410  
MT. MORRIS, IL 61054

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

B1638

Zip \_\_\_\_\_

PLEASE PAY IN U.S. FUNDS—ALLOW 6-8 WEEKS FOR DELIVERY.



# Heavy Metal

A FAN'S PERSPECTIVE

BY ELIN WILDER

THEY'RE USING "IRON MAN" TO SELL WATCHES!!! What the hell is going on here? Using the **Beatles** to sell sneakers is bad enough, but heavy metal to sell watches? Heavy metal music has always belonged to the fans. After all, who's kept it alive all these years? Not Madison Avenue, that's for sure. And certainly not the rock critics, who trash it every chance they get. Think about it—

they've been saying it was doomed from the start, right?

The roots of heavy metal go back twenty years ago, when the critics cracked all over **Blue Cheer** for playing "Summertime Blues" louder than any band had ever played before. But those guys had only 24 speakers hooked up to six amps! And then there was **Iron Butterfly**, who took flack for the first drum solo on "In-



*Lemmy of Motorhead, the originators of speed metal.*



MICHAEL PUTLAND/RETNA

*John Paul Jones, Jimmy Page, and Robert Plant of Led Zeppelin.*

A-Gadda-Da-Vida" But that ended up as one of the biggest selling records of the sixties. Meanwhile, the **MCS** played their first gig at the Fillmore East, and **Steppenwolf** was revving everyone up with "Born to be Wild". It was the start of something.

Nobody really knew what to expect in 1969 when **Led Zeppelin** came out of nowhere with their first album; at the time "Sugar, Sugar" by the **Archies** seemed destined to become record of the year. Critics wrote **Zeppelin** off as Britain's answer to **Grand Funk Railroad**. (Is the criteria for becoming a critic stupidity, or what?)

The kids knew better. The album charted soon after its release, and **Zeppelin's** first tour established them as one of the top live acts in the world.

Among fans and rock historians there is still a long-standing argument about which band was responsible for heavy metal: **Deep Purple**, **Led Zeppelin**, or **Black Sabbath**. I'm not going to choose one over the other, I'll just lay it out as it happened.

By mid-1969, **Led Zeppelin** had a hit on their hands and were in the process of creating another with *Led Zeppelin II*. **Deep Purple** had already established themselves in the states with three successful records, including *Shades of Deep Purple*, but back home in England, they were virtually unknown. During the summer of '69 they decided to change that.

First off, Blackmore and company decided to make a few changes in their lineup: Ian Gillan (vocals) and Roger Glover (bass). The changes in **Deep Purple's** style and sound was almost immediate. While the new band was still rehearsing, Jon Lord put together a concerto for rock and symphony orchestra, with a little help on lyrics from Gillan. The piece won them a standing ovation and the respect of several rock critics. By the time the band completed *Deep Purple in Rock* (1970), they had become a force to be reckoned with. The band toured incessantly over the next two years, and bombarded their fans with records, while its members still found time to devote to outside projects (like Ian Gillan's lead vocals on the *Jesus Christ Superstar* album). By the time *Made in Japan* (1973) was released, *Machine Head* had

been on the charts for 66 weeks, and in the top ten twice. The only question that plagues me is: How did people learn how to play the guitar before "Smoke on the Water"?

So, while **Deep Purple** was getting their act together, and **Led Zeppelin** was jamming the charts with "Whole Lotta Love", what was **Black Sabbath** up to? They were still calling themselves **EARTH!** It wasn't until the Christmas of 1969, after watching a Boris Karloff flick, that Ozzy, Tony, Geezer and Ward decided to change **Earth** to **Black Sabbath**. They were decidedly the worst or best thing anyone had ever heard, depending on who you asked. The critics hated them from the start, avoiding them in print and in person, but the fans couldn't get enough, and the band charted the first time out with *Black Sabbath*. They were succeeding through word of mouth, and Ozzy Osbourne endeared himself to fans by making up in personality for what he lacked as a singer.

Then came *Paranoid* (1971), the album that put them over the top. With its two hits, "Paranoid" and "Ironman", the album made the top ten within a few weeks after its release. **Black Sabbath** had three albums on the charts in the summer of '71 when *Master of Reality* (with "Sweet Leaf") joined the first two. That same year fans helped Sabbath rank third on the Cashbox poll for Top Vocal Group of 1971. The single version of "Ironman" was then released, followed by their fourth, *Vol. 4*. It seemed the group parents feared the most was here to stay.

In 1971, while **Black Sabbath** and **Deep Purple** were pulling up the rear, **Led Zeppelin** already had two gold records and were about to get their third with *Led Zeppelin III*. Then *Led Zeppelin IV* hit the charts, and calls for "Stairway to Heaven" burned up the request line, making Album Oriented Rock stations more of a necessity, and confirming **Led Zeppelin's** place as Most Popular Group of the '70s.

There were other notable changes between 1969 and 1971, including the glut of rock magazines being published, most of them attempting to cash in on the success of *Rolling Stone*. Many of them have since disappeared (*Rock, Raves, Crowdaddy*) and others still plugging away (*Circus, Cream, Hit Parade*). The closing





*Mark Farner of Grand Funk (before he found God).*

of the Fillmores East and West marked the end of an era. Rock also moved from rock festivals to concert arenas, and arena tours became the way most heavy metal groups developed their followings, making it all the more important that bands not only get out there and play, but develop a real stage act.

**Led Zeppelin** was among those touring their asses off. They had appeared at most of the major festivals, including (believe it or not) Woodstock, and in the early '70s headlined a series of sold-out shows. It was a year **Led Zeppelin** broke all previous records when they sold out a Tampa football stadium. Also breaking house records was **Grand Funk Railroad**, who found themselves playing to packed houses at Shea Stadium where the famous **Beatles'** sellout performance took place only a few years before.

Yeah, **Grand Funk Railroad**. The same band that was considered a national health hazard by a consumer group because of their decibel range. They were considered the loudest band in the world, a power trio in the **Blue Cheer** tradition. **Grand Funk Railroad** was also one of the first bands to defy a lack of press and sell gold album after gold album from fan support alone.

Some people might say that **Grand Funk** doesn't belong in an article about heavy metal. The fact of the matter is that they were one of the hottest bands around at the time, and one of the "heaviest". **Grand Funk** also proved themselves to be honorable, and proved it by putting their careers on the line. (If only today's rock groups held the same attitudes towards selling out...)

Management screwed with the group, trying to manipulate them into doing something they felt was a betrayal to their fans. The band fired their management, which led to a lengthy lawsuit that threatened to end their careers. It was rough going for a while. The band continued to meet their touring obligations despite financial hardship and harassment—management kept having the band's equipment confiscated right before they were about to go onstage. The band stood fast and eventually won their case, but had to shorten the name of the band to **Grand Funk**. As it turned out, their career was revitalized when they struck back with



*Worth their weight in gold records, Deep Purple was the heaviest of the '70s heavy metal bands. Shown here in their last reunion: (left to right) Ian Gillan, Glenn Hughes, Jon Lord, Ian Paice, Ritchie Blackmore.*



*Kiss Incorporated: (clockwise from top left) Gene Simmons, Paul Stanley, Peter Criss, and Ace Frehley.*

"We're an American Band", their first number one single.

The year 1972 brought something new into our living rooms and lives, the TV show *In Concert*, which featured **Alice Cooper** as their first headliner when the group was peaking. No more ticket panic, just get out a six-pack and groove with the tube. That was quickly followed by *Don Kirshner's Rock Concert* and *The Midnight Special*. (Where was VHS when you needed it?) These shows featured successful bands of the day and became a showcase for up and coming stars of the future (i.e. **Aerosmith** and the **Ramones**). Often the bands performed live, without the aid of tape or lip-synch. The popularity of these shows led to the first "made for television concert": *The California Jam* (1974), featuring **Black Sabbath**, **Deep Purple** and **Emerson, Lake and Palmer**, among others. Little did we know then that the nightmare of MTV lurked only ten years away. But that's getting ahead of things.

Heavy metal was riding the crest of a wave in 1973. Not only did established bands have mega-hits, but newer American and European bands were making their marks as well, proving that metal was a worldwide phenomenon. **Golden Earring** (Netherlands) had their first hit with "Radar Love," **Bachman Turner Overdrive** was thumping out "Let it Ride," and **Aerosmith's** "Dream On" was first released (it would be re-issued and become a hit in 1976). Meanwhile, **Deep Purple** was high with "Smoke On the Water," **Black Sabbath** was turning heads with *Sabbath Bloody Sabbath*, and **Led Zeppelin** headlined three sold-out nights at Madison Square Garden in New York (footage of those shows was later used in the feature film, *The Song Remains the Same*).

Two bands that were making a lot of noise, but not a lot of headway, were **Slade** and **Brownsville Station**. The British group **Slade** was the more formidable of the two with six number one hits, five gold albums, while not one of their singles didn't make the top twenty in the U.K. Both bands had the same problem—no one took them seriously. Maybe it was the way they dressed, or their album covers, or maybe it was just that no one got their jokes. Despite their image problems, the two bands have been rediscovered through cover versions of their material by '80s bands. **Quiet Riot** cut new versions of **Slade's** "Cum on Feel the Noize" and "Mama Weer All Craze Now," and **Motley Crue** re-recorded "Smokin' in the Boys Room".

Two other important heavy metal influences are **The Pink Fairies** and **Hawkwind**. The **Pink Fairies** are long since defunct, but their hard-to-find records are still considered classics by most heavy metal connoisseurs. It's worth noting that Lemmy Kilmister of **Motorhead** played on **Hawkwind's** biggest hit, "Silver Machine", and that, after 18 years, **Hawkwind** is still going strong.

Then 1974 floated in, bringing two seemingly unimportant events: the above-mentioned *California Jam* and **Kiss**. How

could we have guessed then that underneath all that clown makeup these guys would still be ugly? Can't imagine. By the end of 1975, **Kiss** was a band turning into a mega-corporation as they took the country by storm. They changed the concept of a rock concert into a three-ring circus, complete with fire-breathing and flash pots. "Rock and Roll All Nite" became an anthem, putting **Kiss** over the top and everyone else under the seats. Before you knew it, there were **Kiss** dolls, patches, masks, lunch boxes, makeup kits, and finally, the **Kiss Army** (ugh!) **Kiss** singlehandedly took rock 'n' roll off the streets and into the stock market—an unforgivable act.

With or without pyrotechnics, heavy metal has always needed the road to stay alive. Touring is the lifeblood of heavy metal. Bands have always had to depend on word of mouth and force of impact to beat the odds stacked against them by the standard lack of record company promotion and favorable press. By the middle '70s, touring and merchandising were becoming big business. Concerts were more than a fan ritual, and the notion of fans making their own t-shirts and jackets to show their support was supplanted by pre-fab industrialized promotional materials—typified by t-shirts that itched and took on weird shapes after being washed.

Still, the middle '70s were an exciting time for heavy metal fans. Everyone was out on the road—**ZZ Top**, **Ted Nugent**, **Rush**, **Blue Oyster Cult**, **Alice Cooper**, **AC/DC**, **Thin Lizzy**, **Judas Priest**, and **UFO**, to name just a few. Sometimes there would be three big concerts within days of one another. The packaging of tours also enabled lesser known bands to develop followings and reputations.

The string of tours seemed like an endless dream, but at times, these cross-country caravans would take on a nightmarish tinge. Live shows became big money, and one packed house was better than two almost-sold-out nights. General admission took on a whole new meaning as there were more tickets than seats. Scalping became a sideline for adults who had never heard of the



*Ted Nugent, formerly of the Amboy Dukes and charter member of the NRA.*





MERCURY RECORDS

*The Good, the Bad, and the Ugly—which one is which? (Left to right: Lemmy Kilmister, Fast Eddie Clarke, and Philthy "Animal" Taylor of Motorhead.)*

bands before. And as heavy metal audiences went wilder and wilder over their music, bouncers and security people did too.

When a riot over **Led Zepplin** tickets left the city of Boston with \$30,000 worth of damage on their hands (1975), the mayor cancelled the show (All that for nothing.) It took police from 17 different precincts to stop a bottle-throwing rampage when **ZZ Top** fans couldn't get tickets in San Francisco (1976). It wasn't until fans started getting seriously injured, and at one point, even killed, that anyone started thinking. When eleven people died and another several dozen were injured during that infamous stampede for festival seating at a **Who** performance in Cincinnati, which hit front pages across America in 1979, general seating went out and alternative means for selling tickets was in. Elaborate ticket lotteries that guaranteed very few real fans would get tickets (how many teenagers have checkbooks?), and distribution of designated allotments of tickets to various locations all seemed designed to assure that the scalpers would benefit the most. Inflated prices, like \$500 for front row during **Rolling Stones** tours, became the latest rock gossip.

As the '70s wore on, the reported violence before, during, and after heavy metal concerts made things even worse. It became increasingly more difficult for bands to book venues that would allow them to play. Disco and soft rock were becoming more popular, and venue owners found those crowds more manageable and better behaved.

By 1979 pre-fab bands made up of studio musicians, like **Toto** and **Foreigner**, were topping the charts. It was also the year the infamous "World Series of Rock" show happened in Cleveland, which featured **Ted Nugent**, **Thin Lizzy**, and **Aerosmith**. Thirty people were robbed, two women were raped, and one person was killed.

Incidents like that one led to the practice of searching fans before they entered arenas, and even the use of metal detectors in some arenas. The use of plastic cups rather than cans or bottles also became a widespread practice.

The "punk" years (1976-1979), which introduced the **Sex Pistols**, **Ramones**, the **Clash**, the **Damned**, and the **Dead Boys** to the world, brought some unexpected surprises, including the origins of hardcore, thrash, speed metal. Everyone was so high on the notion of new wave that two of our best bands almost got swept away in the excitement.

No one knew what to make of **AC/DC** when they first showed up in Australia. They were wearing jeans and sneakers at a time when most heavy metal bands had gone glam. And a lead guitarist in a school uniform—what the #\*%?! It wasn't until 1980 that **AC/DC** got their first gold album with *Highway to Hell*, but long before that there was "A Long Way to the Top if You Wanna Rock 'n Roll" and it was—**AC/DC** had toured England in 1975, and were playing around Australia years before that.

Then there was **Motorhead**, another band who could never quite break through here in the States. When they first turned up in Stiff Records stable (which also included the **Damned**, **Elvis Costello**, and **Lene Lovich**), they were often mistaken for a punk band. It would take them a couple of years to straighten that out, and **Motorhead** became best-known for their style of execution, since termed speed-metal.

Two other bands emerged from California towards the end of the '70s—**The Dickies** and **Van Halen**. **The Dickies** claim to fame is that they put out a version of "Paranoid" that was faster than any before it. They've continued to increase in speed over the years, but are hardcore heroes.

**Van Halen**, on the other hand, came out of the California bar circuit, where they'd been condemned to rot by local promoters. That is, until Gene Simmons of **Kiss** "discovered" them, and by that time they'd already been playing together for ten years. Initially it was Eddie Van Halen's distinctive guitar sound that set **Van Halen** apart, but once they started touring it was David Lee Roth's onstage attire and antics that brought them notice. Now, of course, he's "rock's reigning ego-maniac," a crown littered with so many contenders it boggles the mind that any human being could actually claim the title.

In 1980, when **Billy Joel** sang "It's Still Rock 'n Roll to Me," heavy metal fans were groaning as the metal music world was coming apart at the seams. There was a multitude of deaths and breakups that had critics crowing that heavy metal was finally dead. There was good reason to think it might be. **Ozzy Osbourne**, then **Bill Ward**, left **Black Sabbath**, **Joe Perry** split from **Aerosmith**, **Gary Moore** abandoned **Thin Lizzy**, **Ritchie Blackmore** left **Deep Purple**, **Cozy Powell** quit **Rainbow**, and finally, **Peter Dinklage** went home to Beth. But the biggest shockers were the deaths of **John Bonham** (and the subsequent disbanding of **Led Zepplin**) and **AC/DC**'s lead singer **Bon Scott** at the peak of their careers. Also lost to us at this time were **John Lennon** and **Keith Moon**. Without them there would have been no heavy metal.

But by the end of 1980 something new was in the air. In Europe, a new breed of heavy metal was being unleashed. *Metal For Muthas* was the import album that signalled the beginning of the end of the old metal, ushering in a whole new sound and attitude. A sampler of what was then called the "New Wave of Heavy Metal," it included what would become one of the hottest new bands, **Iron Maiden**, and others who would prove influential, like **Samson**, **Preying Mantis**, **Budgie**, and **The Tygers of Pan Tang**. Other bands that surfaced at this time were **Def Leppard**, **Saxon**, **Krokus**, **Witchfynde**, **Accept**,



*Limousines and private chartered jets were a mainstay of heavy metal in the '70s. (left to right: Neil Peart, Geddy Lee, and Alex Lifeson of Rush.)*

FIN COSTELLO/RETNA



*The late, great Bonzo, banging it out behind the man generally acknowledged to be the greatest lead guitar player of the '70s.*

## Heavy Details

*Before Madonna, there was Robert Plant. (After the release of Led Zeppelin II, several record reviewers actually thought Plant was a female singer!)*

*Ozzy Osbourne, that bat-eating bastard.*



BOB A. FORD/STAR FILE



MARK WEISS/MMA





*Ritchie Blackmore with Deep Purple at their best—live and in concert.*



MICHAEL PUTLAND/RETNA



MARK WEISS/ANNA

*Slade (left to right: Jimmy Lea, Dave Hill, Noddy Holder, and Don Powell) were funky-looking but good. Mötley Crüe (Nikki Sixx, Vince Neil, Mick Mars, and Tommy Lee) are funky-looking but....*



FIM COSTELLO/RETNA



MICHAEL PUTLAND/RETNA

*Steve Tyler being ogled by a beer-laden bouncer, another staple of '70s heavy metal.*

**Angelwitch, Rock Goddess, and Girlschool**, to name just a few.

But as the '80s got into gear, a new animal was brought in to the zoo—MTV. Let's face it, heavy metal has never been pretty. Sexist, raunchy and brash, yes, but good-looking? However, thanks to MTV, all that was changed. Bands that would have been blown off for being lightweight and cute found a whole new audience waiting for them—teenage girls.

It used to be that the only girls who used to show up at heavy metal gigs were dutiful girlfriends, who spent most of their time in the bathroom fixing their hair. Any other lone females in attendance could usually count on being called dykes. However, in recent years, the hordes of heavy metal princesses have increased considerably, helping **Def Leppard** and **Motley Crue** on the charts as well as their walls.

So that's the state of heavy metal today. There's a split between hardcore metal addicts (**Motorhead** spin offs like **Metallica** and **Megadeth**, thrashing out speed metal), and "glam-metal" (played by pretty boys like **Bon Jovi**, **Whitesnake**, and **Europe**). Heavy metal has survived it all (PMRC hearings, consumer groups, parents, the PTA, disco, and even parodies like *This Is Spinal Tap*), but still it lives on, proving that the giant only sleeps. It never dies. ●



MARK WEISS/MTA

*Heavy metal is all about the three B's—Booze, Bucks, and Boobs.*





# ELECTRONIC DRUGS

by Marilyn O'Brian

*They promise to expand your mind, release you from anxiety, depression, insomnia, the horrors of withdrawal, and even increase your intelligence. Do they work?*

Whether it's stunt flying or sensory deprivation tanks, I've always craved cerebral stimulation, and I've always been fascinated by how drugs affect the brain. And how tiny amounts of matter can trigger such precise cerebral reactions—replace lethargy with energy, insomnia with oblivion, sweaty anxiety with cool nonchalance—all more or less instantly. If only there weren't those unpleasant little side effects, like increased tolerance, addiction, withdrawal, psychosis, suicidal impulses, high prices, etc.

In any case, my quest for such stimulation has taken me to the

newest frontier: brain machines. These devices have been made possible because of the explosion of knowledge about the human mind—more has been learned about the brain in the last 15 years than in all of previous history—especially the fact that the brain makes its own drugs (like endorphins, the brain's natural opiates). Now, pioneering researchers are using this new knowledge to create machines with fascinating effects. Here are some of the latest models on the cerebral frontier.

## Synchro-Energizer

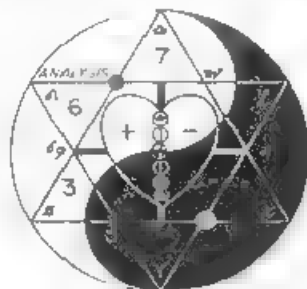
I thought I'd stepped into the middle of California. On the floor, here, there, and everywhere, were inert human forms—fully clothed, on their backs, on mats, wearing headphones and the most extraordinary goggles I'd ever seen—with rings of light around each eyeball and a beam in the center of the forehead. Was everyone pondering the ceiling in electrifying 3-D?

No, nor was this the middle of California. It was the middle of the day at the Tranquility Center in New York, and these people were being synchro-energized. I had heard the Tranquility Center, home of floatation tanks, had a new brain gadget, called the Synchro-Energizer, and I went to investigate. I opted for a private session instead

### THE WHOLE BRAIN WAVE FORM SYNCHRO ENERGISER

Psycho Somatic  
Integration

PATENT NO. 4,315,582



Unlimited States  
of  
Awareness

REV. 1980

BKR.

BAT

CHG

FOCUS  
POWER PHASE SYNC  
ON IN SIM



ON

BAT

CYCLES PER SEC(Hz)

OFF OUT ALT  
EXPAND  
LOW HIGH  
LIGHT INTENSITY

HIGH LOW  
PIT

HIGH LOW  
HEART RATE

of the group for my first time

I took off my shoes, lay down, put on headphones and goggles, closed my eyes and was turned on. For 45 minutes, a kaleidoscope of changing colors and patterns danced on my eyelids as the beat of a heart overdubbed with surf tones, and metronomes sounded in my ears. I lost all sense of time while I was being synchro-energized.

Beforehand I had been tired, sticky, irritable, and a bit hostile. Afterwards, however, I felt refreshed, renewed, zippy, tingly, and even creative. My brain was popping with ideas, but not in a manic, speedfreak way. I remained essentially calm, while feeling energetic and stimulated. Outside again the streetlamps sparkled and the leaves danced in the breeze. I felt like I was seven years old and in some fairytale wonderland. Why? What had happened?

"What the Synchro-Energizer does," says Christine Zerrer, who runs the S-E center in New York, "is bring into harmony all parts of the brain. Not just the right intuitive hemisphere and the overstimulated analyzing left hemisphere, but also the forebrain and the limbic system, where our disruptive, primitive urges lie. This results in clearer thinking, greater mental efficiency, and a sense of well-being."

### *"The Synchro-Energizer is an electronic cornucopia of drugs."*

How does the machine manage that? Both the headphones and the goggles, which have nine blinking lights, (four around each lens and one over the "third eye" in the middle of the forehead), emit a weak electromagnetic field, and are attached to a control console the size of a small briefcase. The flickering light, pulsing sound and vibrating electromagnetic waves are all programmed to pulse in a synchronized pattern that can be sped up or slowed down by turning a dial on the console. EEG studies show that brain wave activity falls into rhythm with the device, so you can choose your brain waves—beta, alpha, theta, or delta—and the various states of mind that go with them, by just turning the dial.

"The Synchro-Energizer is an electronic cornucopia of drugs,"

says Dr. Denis Gorges, the Cleveland psychiatrist who invented the machine after 30 years of research and patented it in 1980. "In the morning, for example, to get going, you can program yourself to an excited, aroused state. Also, people can have themselves tuned to their own state of being and then tune themselves to another state of being. In other words, if you're in a hyper or stressed state, you can match that state and then take yourself to a very relaxed state. In that case, it could replace a martini, or a tranquilizer or a joint. With the Synchro-Energizer, you get the high without

the downside risks of drugs. You can use it to tune yourself in all kinds of different directions."

Musicians use the S-E to calm down after performances and to relieve the stresses of being on the road. (In fact, Bob Weir, singer and rhythm guitar player of The Grateful Dead, says he's been using it for two years, and states that "it is guaranteed to change your state of mind.") Other entertainers who have gone on record as Synchro-Energizer users include Sammy Hagar, Tina Turner, Ally Sheedy, and Carly Simon.) Insomniacs find it effective in inducing sleep, and it's often used before brainstorming sessions to get the creative juices flowing. Some S-E users have reported vivid flashbacks of childhood events during sessions, and others have experienced

sudden flashes of insight (the "Eureka Effect"). "But it's not miraculous," Christine explains. "It merely sets up a situation to put the body and brain in the best state to give optimum performance, allowing a person to function at his or her fullest potential."

While no medical claims are made for the S-E, its effects are currently being studied at ten universities, in areas including stress reduction, substance abuse, accelerated learning, pain reduction, sports performance, and learning disabilities.

The Synchro-Energizer seems likely to become the Frisbee of brain machines—accessible, enduring, and popular everywhere. Five thousand are in use around the world, including the private practice of doctors, psychiatrists, and therapists. There are now 15 centers in the US, with the S-E available for private and group sessions. (The latter are usually \$10 a pop, private fees vary.) By year's end, "Minder-cise" centers in 36 major cities will have the Synchro-Energizer.

### *Graham Potentializer*

I lay down on a bed, put on headphones, closed my eyes, and began to experience exquisite sensations of pure euphoria. The bed whirled, as I drifted into a semi-swoon—very much at peace with myself. While I was thus languishing, the motorized bed slowly revolved in a counterclockwise circle, rising and falling rhythmically. I was also moving through a weak electromagnetic



ANDRE GROSSMANN

field generated by a box at the head of the bed

"Besides my machine, probably only a trip to the moon or into space is a more powerful way to develop IQ and consciousness," says David Graham, a Canadian electrical engineer and inventor of the Graham Potentializer. His provocative theory to support that claim is as fascinating as the machine itself.

Graham believes—and recent research on motion tends to support this notion—that the brain, after reaching its full size at age six, continues to develop its powers and potential primarily through the effects of vestibular stimulation (i.e. the effects of motion on the inner ear, called the vestibular). This stimulation is so crucial because motion has a particularly powerful effect on fluids in the inner ear, causing the nerve endings there to send an enormous amount of electrical signals to the cerebellum, which in turn relays them to many parts of the brain. New pathways are devised as this tremendous number of signals seek to arrive at many different destinations, including the brain's so-called pleasure centers (which accounts for the euphoria described earlier). In essence, this high volume of neural activity expands the brain, stretches it and sharpens its powers, much like a good workout tones and exercises the body.

The roller coaster is a striking example of the effects of vestibular stimulation on the brain. During the ride, the passenger does nothing but sit still, yet afterwards he or she is overwhelmed by feelings of exhilaration, breathlessness, excitement, and general pleasure.

Graham also believes that humans are profoundly affected by the natural and artificial fields surrounding them. Since the earth's electromagnetic field is a basic component of our existence, its complete absence would force the brain to expand in new ways to deal with the change. The potential effects of no electromagnetic field, combined with the fantastic motion of space travel leads Graham to assert that a trip into space is "an incredibly powerful way to develop IQ and consciousness."

"If this theory is a correct model," he says, "it predicts that the astronauts return with a totally different consciousness than they

## WHY ENERGIZE?

Using the Synchro-Energizer is like a trip into the Twilight Zone: it's a journey not only of sight and sound but of mind. More than 100 people make this journey every week at Tranquility Center. But who are they? Why do they do it? And why do they keep going back?

According to Margo Currie, a Synchro-Energizer operator at Tranquility Center, "Businessmen and women find that it's very relaxing for their high-stress jobs, and artists find they have more of a creative flow." She also finds that people who have experienced the Synchro-Energizer are more than willing to share the experience with others. "Usually friends bring friends," Currie claims. "People buy blocks of time because it has an accumulative, clearing effect. And if you feel clear, you're more ready to deal with life's little adventures."

It was dealing with life's little adventures that prompted Jerry Rosco, director of advertising at a legal publishing house in New York, to bring four frazzled co-workers to the Synchro-Energizer when their yearly catalog was destroyed shortly after it had been completed. "Everybody was at their most manic," he recalls, "and our junior copywriter was crazed. So I took everyone to the Synchro-Energizer to calm them down and get them thinking straight again." And how did an hour under the flashing lights and changing tones of the Synchro-Energizer help? "When we got back,

we were all totally relaxed. Our problems with the catalog were still there, but everybody was in a completely different frame of mind and able to deal with the situations that came up."

After a few months of steady use, Rosco credits the Synchro-Energizer with a definite change in his life. "The Synchro-Energizer is a tool that people ought to use. I'm in favor of chemicals, but it's good to have other alternatives, too. It's something that works."

Not surprisingly, I was skeptical after hearing all this good press; so I made the trip to Tranquility Center and tried the Synchro-Energizer myself. The experience turned into the best ten dollar investment I've ever made. I left the building relaxed, grinning like an idiot, with the same sense of heightened superiority you get after doing just the right amount of coke, minus the adverse physical and mental sensations or crash. After the best night's sleep I've had in a long time, the next two days were like a valium rush: 48 hours of mental bliss without the stupor that comes with taking a fistful of downs. Return trips have given longer, more intense reactions and the desire to get everyone I know how to hook themselves up to this machine for at least an hour. There are a lot of positive things to be said about the Synchro-Energizer, but perhaps the three most important are that it's cheap, it's legal, and it works.

— Roger Keith

left with—and that's exactly what happened." He notes that all of them had "weird consciousness-changing experiences and no one came back the same person."

There's some consolation for those of us stuck on this paltry planet. "We can take any normal person and raise their IQ to 135-145 in less than 20 hours on this machine," says the inventor. An extra bonus. "It's the best piece of equipment for eliminating phobias you're ever going to run into. I

haven't met anyone with a phobia who used the machine five or ten times who still had the phobia."

Chinmayee Chakrabarty, whose machine I used, is a Manhattan psychotherapist who uses the GP in her private practice. "It's quite powerful," she says. "I've seen it have extraordinary effects again and again." Other professionals who use the GP include chiropractors, psychologists, homeopaths, and those involved in teaching brain-damaged or autistic children.



## Brain Tuner

The first time I used this I knew I had to own it. I was at a workshop being conducted by Michael Hutchison, author of *Mega-Brain*, who was demonstrating the "tools and techniques for mind growth and mind expansion" described in

*I noticed a definite increase in pleasure.  
Sex was more intense.*

his book. I placed the ends of a stethoscope-like device in the hollows below my earlobes and turned on the knob on the little box I was hooked up to. Instantly I got these tingling sensations, like two bolts of energy running up my skull behind my ears. I figured that had to liven up my brain chemicals, and when I found out that this machine was meant to relieve anxiety, depression, insomnia, and addiction, I reckoned I had just tumbled into heaven.

Breathlessly I waited for the package that would cure me of all life's troubles. It finally came, with instructions to use it for 20 to 40 minutes, twice a day, for a month. Did it work? Did it put an end to my anxiety, depression, insomnia, and addiction? Did I live happily ever after?

No. Which is not to say it had no effect at all. I did notice, in a subtle way, what's called an "overall sense of increased well-being". Both myself and the world were slightly less ghastly subjects of consideration, which I suppose indicates a drop in anxiety and depression. I guess it's unfair to expect any machine to cure the insomnia of someone whose blood is 96% espresso, and because I wasn't particularly addicted to anything at the time, I couldn't verify that claim. But I did notice a real change in my dreams, which heretofore had been the usual late 20th century mishmash of all things sacred and scary, profane and mundane. Instead, now I was suddenly starring in these vivid electrifying adventures of split-second timing and daredevil derring-do, flying WWII fighter

planes through glass skyscrapers. Meanwhile, during my waking hours, I noticed a definite increase in pleasure. Not that I had more fun moments. I didn't. But the pleasures I did have—sex, for example—were more intense. However, since pleasure and I have always been on the best of terms anyhow, this dividend was not such a big thrill compared to the end of anxiety, depression, etc.

The Brain Tuner is a non-invasive Cranial Electro Stimulation (CES) device that puts a small AC current, around 100HZ and under 1 milliampere, directly into the head through electrodes placed on acupuncture points, usually behind the ears. It was invented by Dr. Robert Beck, a physicist and engineer who holds several patents and is widely respected in the field of electromagnetics. CES, also referred to as Neuro Electro Therapy (NET), has been the subject of intensive worldwide study over the last several decades, especially in Russia, and it's been successfully used to treat depression, insomnia, drug abuse and other stress-related syndromes. The underlying theory which CES is based on is that electrical current can stimulate the release of neurotransmitters or brain chemicals. However, only specific currents can stimulate the release of specific neurotransmitters. For example, NET units are widely used in the treatment of pain because the particular electric current frequency they use stimulates the release of endorphins, the body's natural opiates. CES bears no relation to shock treatment or the barbaric Electro-Convulsive Therapy.

According to Dr. Beck, the Brain Tuner emits 256 simultaneous frequencies that include "all known beneficial frequencies for the natural stimulation of the brain's neurotransmitters." Another of the many CES devices is the "black box" designed by Dr. Margaret Patterson. This is the one that Keith Richards, Eric Clapton, and Pete Townshend used to kick their various addictions. With the black box, the

frequencies are selected to suit the client's particular problem. Barbiturate addicts tend to respond to low frequencies while cocaine and amphetamine users benefit most from very high frequencies. Dr. Patterson's black box is currently pending approval by the FDA.

These are just a few of the "brain machines" currently available. In future issues of *HIGH TIMES*, we'll keep you posted on the latest developments and machines. More are appearing all the time, even as the ones above are modified and upgraded (a portable, Walkman-type Synchro-Energizer for personal use should be out by year's end for under \$500). Although many experts have no doubt about the beneficial, mind-enhancing effects of electrical stimulation, it must be remembered that bioelectricity is still a new field full of mysteries.

Contrary to the accepted wisdom, recent research indicates that the adult brain is capable of growth and change, given the proper stimulation. As more of the brain's secrets are revealed in this field of fast-paced discovery, even more sophisticated devices will be developed. One thing is certain: We are crossing a threshold into a new era of consciousness. Nothing will remain the same for that most complex of all structures in the universe, the human brain.

**For further information:**  
**Synchro-Energizer**  
**Synchro-tech Research**  
**Corp.**  
**Cleveland, Ohio**  
**(216) 748-1133**

**Graham Potentializer**  
**David John Labs**  
**Phoenix, Arizona**  
**(602) 265-3274**

**Brain Tuner**  
**Volker Risto**  
**Enhancement Products**  
**Institute**  
**7300 Lennox Ave. #1-7**  
**Van Nuys, CA 91405**  
**(818) 781-9431**

None of these devices make any medical claims. Their use is not advised for pregnant women, people with pacemakers, epilepsy, or heart conditions. The long-term effects of these machines aren't known yet. ●

# KOH SAMUI

Story and photographs by John Eder



*Thai weed picked up in Bangkok on Khao San road for 100 baht (four dollars).*

Picture yourself on a beautiful tropical island. Palm trees sway in the breeze, crystal clear water laps the golden sand, and bare-breasted Scandinavian women play volleyball in the sun. Meanwhile, you're toasted on the psilocybin mushroom omelette you had for breakfast, contentedly sighing, wondering which one of your poor slob friends is stuck shoveling out the driveway back in Minnesota.

Sounds too good to be true, you say? (Not to mention too expensive!) Not true, doubting reader. This place really does exist, and it's cheap. Once you get there, that is.

I'm talking about Koh Samui, a small island about 40 miles off the coast of Thailand. Unlike some of the other islands around Thailand, Koh Samui's inaccessi-

bility has left it relatively unspoiled by Thailand's booming tourist industry. Also, it is geared more towards young people. The scenery is beautiful—huge vistas of palm trees, sweeping down to the blue-green ocean—and the island is so small you can motorbike all the way around it in about an hour.

If you're interested in the vacation of a lifetime, I'll tell you about the costs. First of all, round trip airfare to Thailand is going to cost you about eight or nine hundred bucks, but keep in mind that once you land, things get CHEAP. If you do it right, a vacation to the Far East will cost as much as a vacation to Europe. Thai currency is called the "baht", and the exchange rate is around 25 baht to the dollar.

*continued over*









*Above: Vegetarian devotees' annual ritual on Phuket Island features this six-pack to go.*

**Top left:** A roadside mushroom farm near Big Buddha beach.

*Top right and at left: An example of the fresh mushrooms available from your friendly local hotel manager.*

*Bottom left: The Magic Resort at Lamai Beach has videos, a great open-air restaurant on the beach, and allows smoking of all kinds on the premises.*

*Bottom right: Larnai Beach, the most popular hangout for topless Scandinavian women.*





found them indispensable for dealing with the tedium of travel.)

Upon arrival, you will be greeted by friendly bus drivers who will take you, and as many other poor souls they can cram into their vehicle, to the beach of your choice. There are beaches for every taste here—quiet, secluded ones; expensive ones, etc. I recommend Lamai beach.

Once in Lamai, get a room. You can get a pretty decent room right near the water for about 200 baht a night. If you're really going cheap, you can get a little shack for as low as 50 baht a night, with a common bathroom and shower. Prices vary according to the season. The high season is from November to February. In the summer, it's too hot, and they stop running ferries; in the fall is the rainy season.

I stayed at the fabulous Magic Resort in Lamai, right on the beach. This was somewhere between a real hotel and the shacks. It's best to bring your own sheets when travelling in Thailand, as maid service is not part of the deal in the inexpensive bungalow places.

Food in Thailand is also really cheap. A meal consisting of a half chicken, a huge bowl of steamed mussels, fried rice and a soft drink will cost about 80 baht (\$3.00). Thai food is wonderful, especially if you like it spicy. (Watch out if it's too spicy, 'cause then you'll be in for a "ring of fire" experience in the bathroom later.) Western food, like burgers and sandwiches, is available, but why go to Thailand to eat burgers?

Drinking is expensive in comparison to how cheap everything else is. Beer is heavily taxed, resulting in American-style prices. Better to stick with the local whisky—the deadly Mekhong—which is best when mixed with cola or seltzer. You can buy a fifth for 85 baht, and bring it with you to restaurants, as long as you buy mixers from them.

While perusing the menu, you're bound to notice the magic mushroom omelette. Koh Samui is full of mushrooms. The omelette costs 100 baht, but you can go to the Magic Mushroom farm in Big Buddha beach, and bypass the middleman. It's easy to find—there's a sign right on the road. Technically, mushrooms are illegal, but the police seem to ignore this. Just don't let them catch you with any or they'll stick you in jail until you give them a bunch of money. (Lamai is full of places offering mushroom omelettes



*On your way to Koh Samui a visit to the Phatphong Road go-go bars can be fun.*

Consequently it's also full of people staring at rocks and going "Wow!")

When the day is ending, and you're coming down, you'll want something to take the edge off. So go out for dinner, and ask the waiter for a bag of marijuana—he'll bring it to the table, and you can light up after dinner. It's cheap, too.

Go to Koh Samui now—before hordes of tourists discover it and ruin it. It's one of the greatest vacation spots on earth! The Thai people are friendly and cheerful, but as usual, watch out for the cops. If you do get in trouble, keep in mind that they are incredibly corrupt and open to bribery.

So what are you waiting for? GO! ●

## Don't Screw Up

A few words on smuggling: Thailand is notorious for its heroin trade, and there are big bucks to be made in smuggling. The temptation is great, but HIGH TIMES must warn you: Don't do it. The penalties are extreme if you're caught in Thailand, and Southeast Asia in general. In Malaysia, they'll hang you. In Thailand, they'll put you in Bangkwang prison with the hardcore murderers and thugs of Thailand. I visited with some Americans who have been in jail for a number of years there. They described it as a living hell, and urged all readers not to try smuggling any amount

of drugs in or out of Southeast Asia. They also asked us to print their address, in the hopes that they can get some pen pals. These are great guys, who have kept their spirits up despite terrible circumstances, and they'll deeply appreciate any correspondence:

Mark Edwards  
Carl Most  
Bangkwang Prison  
Nonthaburi  
Thailand  
11000



# NORTHERN DELIGHTS

Buds & Beachcombing in the Pacific Northwest







PROFESSIONAL GROWERS RECOMMEND

**THE SEED BANK**  
of Holland

**THESEEDBANK**

Supplier of premium quality cannabis seeds.  
The future is now.



'Just Say Yes'  
to our Full Color

**FREE**

**1988 CATALOGUE**

We have some of the most potent and resinous varieties in the world, including NORTHERN LIGHTS, BIG BUD, SKUNK # 1, HASH PLANT, and G-13. Also, we have super quality RUDERALIS HYBRIDS for the Northern grower. What you're growing should be the best you've ever smoked. Every grower can benefit from our collection.

NEW Exotic equatorial Sativas, hybridized with our best indoor Indicas, producing plants of astounding quality for the connoisseur

**The Seed Bank**  
**Postbus 5**  
**6576 ZA Ooy**  
**The Netherlands**



# NO SWEAT HYDROPONICS

## How Anyone Can Set Up a Garden in a Few Minutes

by Ed Rosenthal

Most of the articles about cultivation talk about hi-tech rooms with water whooshing around CO<sub>2</sub> tanks with computer controls and digital meters regulating temperature and humidity.

This must sound like bad news to the novice grower, who just wants to grow a little dope in her/his closet, basement, or attic and doesn't realize a \$5,000 investment is expected.

Here's the good news: Marijuana is one of the most adaptable plants around. It was discovered by humans somewhere in central Asia and has been spread symbiotically by humans virtually all over the



*Cuttings at Seed Bank growing under continuous HPS light in 3-1/2 inch rockwool cubes.*



*A variety of plants grown in two quart containers. Each container was filled with loose rockwool and then placed in an oil drip pan tray available at auto-supply stores. The containers were watered from the top and allowed to sit in the tray. When they were fully watered there was a two inch water level in tray. Plants were flowered at six weeks and ranged in height between 2-1/2 to 4 feet. Many varieties were grown in the garden.*



*Three and one-half foot tall plant growing in eight inch pot filled with vermiculite and perlite. If this plant had been forced to flower earlier, it would have had almost the same amount of bud, but much less stem. The smaller plant would have been much more cost-efficient. Containers were watered three times a week by hand.*

world Going indoors is just one of many adaptations to a varied environment. Cannabis has the genetic flexibility and diversity to enjoy the near tropical environment that the move indoors represents. What this means to the small-time grower is that the plants do not need perfect conditions to grow. It means you can get into growing with almost no investment, provided you treat the grow space in a modular way, improving equipment as you go along.

Let's get into basics. Plants grow by using light energy to convert carbon dioxide ( $\text{CO}_2$ ) and water ( $\text{H}_2\text{O}$ ) into sugar, releasing oxygen ( $\text{O}_2$ ) in the process called photosynthesis. Small amounts of other elements are used by the plants for their life processes and to build carbohydrates and protein.

From this simplified explanation of how plants grow, you can see that there are some basic requirements that plants

need, namely light,  $\text{CO}_2$ , water, and nutrients. In nature these needs are usually part of the environment. Indoors, it is up to the gardener to supply them.

## SETTING UP THE ENVIRONMENT

Outdoors, marijuana grows best under full light, with high nutrients and plenty of moisture in the soil. To get the plant to grow vigorously and bud well, these conditions must be met. Supplying light is the hardest and most expensive part of growing for most closet farmers. Intense light is expensive to generate electrically, and hard to distribute evenly throughout the garden.

## LIGHT

There is no reasonable way a gardener can generate as much light as is found on

a sunny summer day. Luckily the plants do not need that much to grow and flower well. However, they do need a very bright environment.

All electrically generated light costs money and taxes the electrical system; so the most efficient way to go is to conserve any light generated. The solution is cheap and simple: paint the perimeter with flat white reflective material. Another solution: line the perimeter with aluminum foil (dull side out so that the reflection is diffused rather than just reflecting in hot spots).

More expensive solutions: if the room is in an area where heat must be conserved in order to maintain a 70-80 degree temperature when the lights are on, line the walls with styrofoam insulating material which comes on a roll (available in hardware stores).

Grow-stores sell mylar reflective

*continued on page 59*



# ASK ED

BY ED ROSENTHAL



## BUD OF THE MONTH

This is it. This is why we come home with our legs infested with chiggers, ticks attached to our scaps, and our clothes harboring stickers, burrs and sweat.

After it's all over, my wife and I sit back with a tasty joint, soothe our ears with blasts of heavy metal music, and we watch it snow. Life just doesn't get any better. This plant was of Afghani strain

—Alexandria, Tennessee



## GARDEN OF THE MONTH

Here's a picture of my jungle and a few buds from it. On the left are two skunk buds. The others are California Orange. All plants were grown under a 1000 watt high pressure sodium. Most plants were started under continuous light for four months, then cut back to 18 hours for budding.

—Stain

Erie, Pennsylvania



## PLAN

These two plants were grown just outside Syracuse, New York, starting with clones whose origin was the Seed Bank (Northern Lights x Skunk 1). We planted each of the clones in 12 gallon peat pots, in case we had to move the plants fast. We nurtured them all summer and harvested them Sept. 13, the day of this picture. Each plant yielded 10 ounces of dry, fruity-sweet tasting, ass-kicking buds.

—Bobalou, M.J., and Jac  
Syracuse, New York

Dear Ed

We start our plants in 5-gallon buckets filled with creek gravel under fluorescent lights. The lights are left on continuously for 2 weeks. We water twice a day with 75-85 degree water with fertilizer from Natural Science research. We change the water and nutrient every 2 weeks. We also use CO<sub>2</sub>.

After 2 weeks the plants are placed  
*continued on page 58*



# DR. INDOORS

BY BRAM



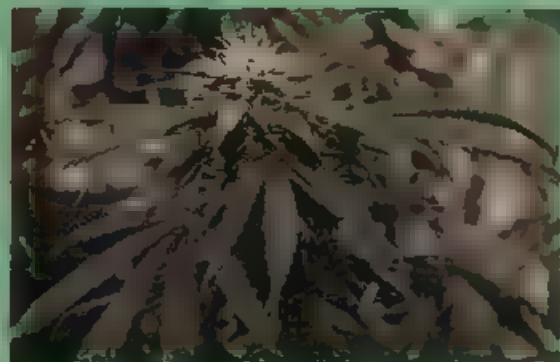
*We tried your trellis idea. It worked pretty good as you can see. Afghani grows real well indoors. We harvest soon, and we'll let you know how it went.*

*High in the Mountains*



*Doc, here's two week old Northern Lights in your system. Hope our harvest goes as well. The system and the plants are a good duo, dynamic you might say!*

*E.T. from LA*



*Here's some indoor indica we grew this year. Sweet taste and it had a rocketship high. Three cheers for indoor growing and SSSC!*

*Hi-tec, Florida*

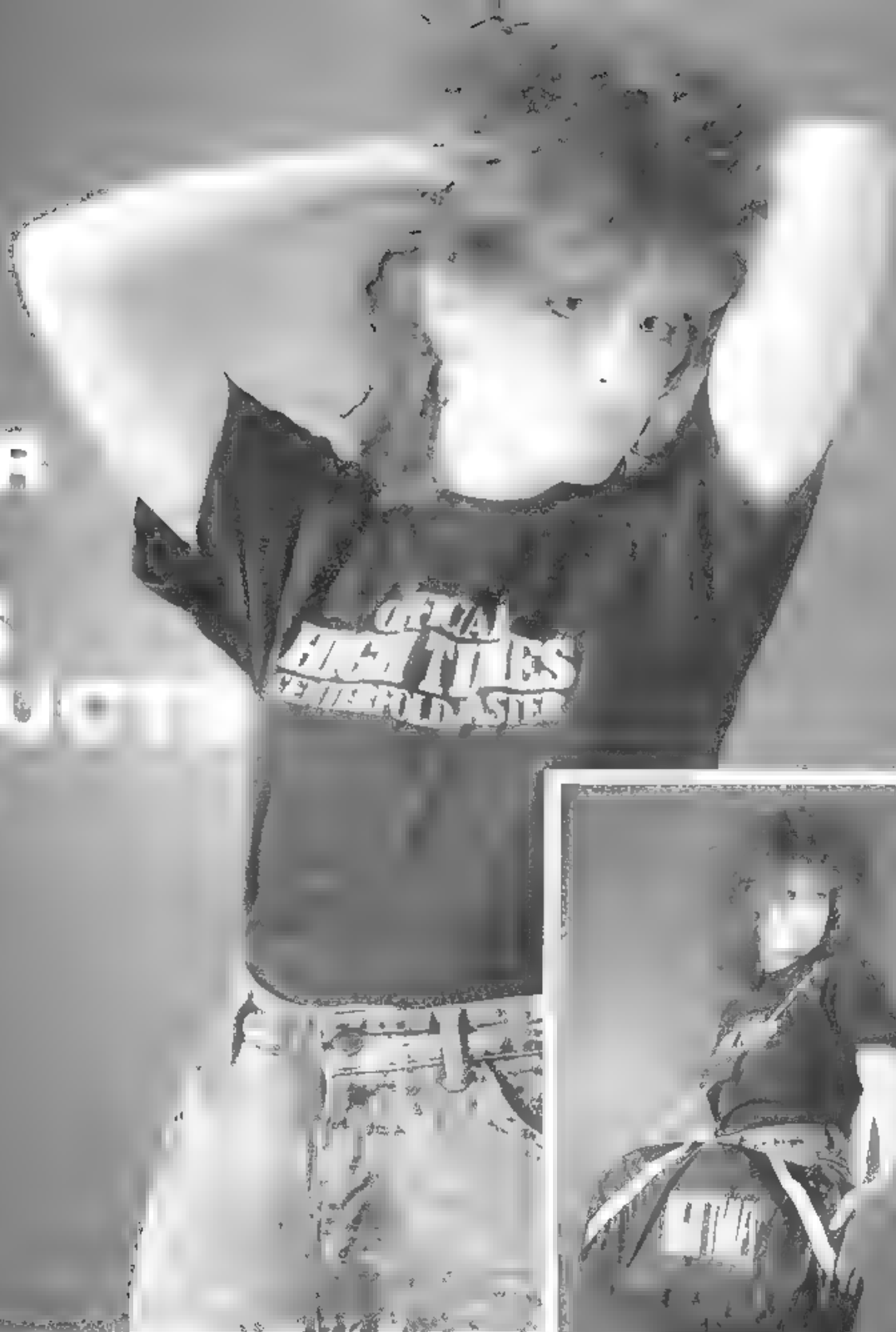
*This 60 day old Afghan #1 was fantastic. Great high and taste. Growing indoors gave us better results than outdoors! Thanks Doc!*

*The Budman, Minnesota*

*Dear Dr Indoors  
I'm a new grower and my plants are in a 3' x 4' closet. There are two gro-bulbs and one 30" fluorescent light over my plants*

*continued on page 60*

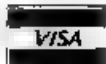
**ORDER  
HIGH  
TIMES  
PRODUCTS  
NOW!**



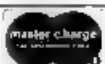
**CALL TOLL FREE  
FOR ORDERS ONLY**

800-435-0715

In Ill. 800-892-0753



- ☐ Payment enclosed  
☐ MasterCard ☐ Visa



Card# \_\_\_\_\_

Expiration date \_\_\_\_\_

Signature \_\_\_\_\_

**HIGH TIMES  
PRODUCTS**  
P.O. BOX 410  
MT. MORRIS, IL 61054

**CODE Product**

**TB** High Times Tote Bag  
**HTC** High Times T-shirt

**Please allow 6-8 weeks for  
processing and delivery.**

Quantity	Price	Cost
<b>TB</b> _____	x \$7.95 =	\$ _____
<b>HTC</b> _____	x \$7.95 =	\$ _____
		<b>Subtotal</b> \$ _____
		<b>Postage &amp; Handling</b> \$ <u>1.95</u>
		<b>N.Y. Residents Add Sales Tax</b> \$ _____
		<b>Total</b> \$ _____

sizes: ☐ S ☐ M ☐ L ☐ XL

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

HP58

## WHOLESALE GROW LIGHTS

All systems completely wired with 44" reflector. Highest quality lowest noise ballast with 2 year guarantee. All Halide systems come with MS Super Lamps. No misleading ads. No catches. Just the most complete. Highest quality systems available anywhere for a price second to none.

### COMPLETE SYSTEMS

1000W Halide System	\$165.00
400W Halide System	\$125.00
1000W High Pressure Sodium System	\$210.00
400W High Pressure Sodium System	\$170.00
The Original World Famous Maximizer CO <sub>2</sub> System	\$160.00

### REPLACEMENT LAMPS

MS 1000W Halide	\$50.00
400W Halide	\$35.00
1000W High Pressure Sodium	\$60.00
400W High Pressure Sodium	\$45.00
Iwasaki Conversion Lamp 940W	\$125.00
Iwasaki Conversion Lamp 360W	\$65.00

For over eight years we've carried everything for the serious indoor grower: tracks, sunrises, hydroponics, ion generators, charcoal fans, scales, etc. Please write or call toll free for our catalogue.



**CALL TOLL FREE 1-800-544-7956**

**Emerald City Halide North • 8016 15th Avenue NE • Seattle, WA 98115**

**Orders Shipped Anywhere**



## CLASSIFIEDS

**DO YOU HAVE A NEW OR UNUSUAL PRODUCT?  
STARTING A NEW BUSINESS?  
WANT TO GET THE WORD OUT?  
OR HOW ABOUT A PERSONAL AD TO MEET NEW PEOPLE?  
OR TO SHARE GROWING TIPS?**

**CLASSIFIEDS GET RESULTS!  
CALL 212 972-8484 EXT. 23**

## Finally, the long-awaited sequel to John Shirley's ECLIPSE

# ECLIPSE PENUMBRA

**Book II in His Epic Cyberpunk Trilogy  
A Song Called Youth**

The New Resistance faces elimination as the fascist Second Alliance government clears the way for Project Total Eclipse—selecting scapegoats, directing violence and stretching their shadow over every remaining outpost of humanity.

### Rave Reviews for Eclipse:

"Vivid, dense, powerful imagery . . . hard to put down!" —*Washington Post*

"Full of passion and acute characterizations." —*Science Fiction Review*

"John Shirley accomplishes things that most writers would not dare attempt." —Bruce Sterling, author of *Schismatrix*



## ASK - ED

*continued from page 55*

under a 1000 watt MH under 18 hours of light a day for 2 months. Then they are cut back to 12 hours until harvest.

We have been growing this way for 11½ years. In that time we have gotten 3 crops with varying degrees of success.

We have to replace our lights soon. Do you recommend staying with the MH or should we switch to HPS lamps?

Do you have any other suggestions on how to improve our system for a better harvest?

Thanks,

—L&R

Cedar Hill, Texas

**Switch to HPS which produces more usable light than the MH.**

**Switch to the small plant method of growing using clones. Place the plants in harvest when they are 10-15 inches tall.**

Dear Ed,

We have discovered an easy way to prevent animal predators from destroying our plants. Paint a one gallon plastic milk container a camouflage or earth-tone color. Punch a dime sized hole on each of the four sides of the jug below the slope of the neck to prevent rainfall from getting in. Fill the jugs up to the level of the holes with human urine. Place the jug on the ground, or dig it into the ground, so that the holes are just above the ground level (this slows evaporation). The odor from the jug will remain strong throughout the growing season. Add more urine as the fluid level drops.

Sincerely yours,

—V and C and J and T.K.

Devil's Bluff, Arkansas

Dear Ed,

I have a problem with white flies. Are they damaging to the plants? If so, how can I get rid of them? I would prefer not to use chemical sprays.

—*Brooklyn Buds*

Brooklyn, New York

**The easiest way to control white flies in a greenhouse or grow room is to use the white fly parasite, *encarselia formosa*. This insect is a small non-social wasp. It is about 1/20 the size of a white fly. Its entire life is lived as a predator of white flies. The primary way it keeps them controlled is by laying an egg in each white fly egg. Within weeks the white flies are an occasional sight, never to be a bother in the garden again.**

*continued on page 71*





*Plants growing in 16 ounce styrofoam cups stuffed with loose rockwool. Holes were punched in the bottom of each cup. The containers were placed in a five foot diameter kiddie pool. To water, a hose was placed into the pool and it was filled until there was a 1-1/2 inch water level. Illuminated by a single 100 watt HPS.*

## NO SWEAT

*continued from page 54*

material that they claim is the most reflective stuff around.

Some mail-order stores sell Astrolon which is another highly reflective material.

**BEST BET:** aluminum foil

## THE LIGHTS

If you figure just the cost of the lamp, fluorescents are the cheapest way to go. They are often on sale in hardware and discount stores and come in various configurations such as four and eight foot lengths and in circles. They can be hung from the top and placed in any position. Deluxe warm white and deluxe cool white tubes mixed create a good spectrum of light for plant growth.

Fluorescents are cheap to buy, and can sometimes be salvaged or picked up used. If you are using used reflectors, buy new tubes because old tubes do not generate as much light.

They can be placed all over the garden to light up dark spots and can be used in innovative ways to light the plants.

If you are not paying for electricity their

total cost is very little. To increase total light to the plants the tubes can be placed around the garden as well as over the plants. The tubes can actually be placed in between the plants by using portable fluorescent fixtures available in hardware and auto-parts shops.

However, fluorescents are bulky in the garden and inconvenient to use. They generate their light over a dispersed area rather than a point, and they are bulky. The total amount of light that can be delivered to a given area is physically limited. The low light levels slow growth and limit bud density and size. You can still get good buds growing under fluorescents, but not as good as under high intensity discharge lamps (HIDs).

The total cost of a source of light cannot be figured just as the purchase price. It is also based on the amount of light useable to the plant generated per watt of electricity. By this standard, fluorescents are more expensive than HID lights because HIDs generate a lot more light than fluorescents per watt of electricity.

## HID LAMPS

HID lamps come in two forms, metal halides (MH) and high pressure sodium

(HPS) lamps. These lights are found outdoors as street lighting. The MH lamps emit a white light and the HPS lamps emit a pink-amber light. The HPS lamps are more efficient, that is, they emit more light per watt than the MH lamps.

Some cultivators say that plants do better under one lamp or another or a combination during the pre-flowering period. I think that most plants do better under HPS used alone. In any case, the differences in growth during the pre-flowering period are marginal. Virtually everyone agrees that HPS lamps are the way to go during flowering. They encourage flower growth more than MH lamps.

HID lamps are very efficient energy converters and produce lots of light per watt.

HID lamps usually come with the reflector and tube remote from the ballast so that they are lightweight and easy to manipulate.

HID lamps emit light over a small area, so that the energy is very concentrated and can be delivered to the plants with great intensity.

However, HID lamps' purchase price is high.

**BEST BET:** an HPS lamp.

*continued on page 68*



## BE CERTAIN

Now you can determine the sex of flora and fauna with the revolutionary **RADIESTHESIA CRISTAL METHOD™**. This method evolved from studies on electromagnetic radiation which emanate from all living things. With the **RADIESTHESIA CRISTAL METHOD™** you can test seeds, plants, birds and humans for gender. This method has proven for many as the best technique for determining sex. The **RADIESTHESIA CRISTAL METHOD™** employs a unique crystal pendant on a gold chain along with an exclusive guide

- ▲ It can be used at ▲  
any stage of growth
- ▲ Totally organic and ▲  
safe Lasts forever
- ▲ Save money, ▲  
time and labor

100% moneyback guarantee if not completely satisfied. Simply return product within 15 days and money will be cheerfully refunded.

Order now and receive a free **EMERALD TRIANGLE** display box. Send check or money order.

U.S.A. .... \$29.95  
Outside U.S.A. .... \$32.50  
Allow six to eight weeks for delivery

**EMERALD TRIANGLE  
PRODUCTS COMPANY**

1537 A 4th Street  
Suite 100, Dept HT6  
San Rafael, CA 94901

## DR. INDOORS

*continued from page 56*

They grow very quickly. At two weeks old they are 10" tall. Is it too soon to put them into flower? If not, what is the best food to feed them to start the buds and the flowering?

Thanks,  
Starter Luck

The light from your grow bulbs and the fluorescent will encourage tall, spindly plants as they reach for the light. Try a 200 or 400 watt horizontal halide. The plants need light to grow and flower. The more light the better. Stronger light will allow your plants to grow to be thick, short, and bushy. If you are using the plantlet method, the intense light will allow you to have a sea-of-green area filled with ripe buds. As to your 10" plants, two weeks old from seed is old enough to get flowers, but the question is how big will the flowers be? I would clone the plant several times and then flower them all. Feed the plants a complete food such as Dyna-gro, ECO-S, or any full food with micronutrients.

Dear Dr. Indoors,  
I'm converting my growing hobby from the outdoors to the indoors. I have a room that is 14'x12' with plenty of ventilation. I have \$600 to invest in a system and light. What should I do??

Avid HT reader

Divide the room into smaller rooms. You don't need to use all the space at once. Give yourself a 6'x7' area to start. In this area put a 1000MS halide either vertical or horizontal mount to supply the light. The cost for the light and the timer will be around \$200. Pick a grow system that fits the area. There are a lot of good systems on the market. Aeroflo by Diamond Lights/General Hydroponics is a good expandable system. The Good Buddy-Super Buddy by Higher Yield will also give good results, and is expandable. You can use Hydrofarm Quad by Applied Hydro, or SGS Europonic by Superior Growers. Any good hydroponic system will do. Pick the one that appeals to you and fits into your budget. Most are around \$200. So far, that's \$400 of your \$600. Build a smaller area 3'x4' for cloning. You can use a 175 watt horizontal light. The cost is about \$110 plus a timer, which will cost about \$15. To grow the clones get some clone kit equipment like rockwool, simple trays, and rooting hormone. Rooting hormone can be Rootone, Klon-gel or something similar. With this set up, you can start the plants in the clone area, clone them, and when they're ready, move them into the main area to flower. This system will keep you in cannabis for a while and when your budget allows, you

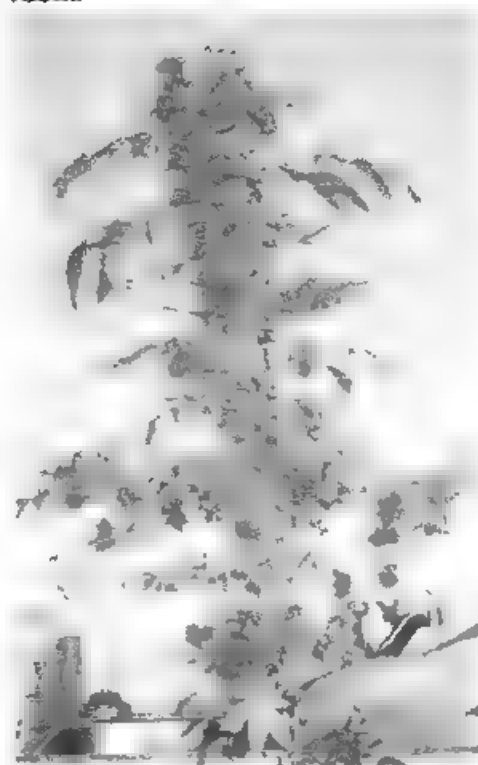
can increase the size of the rooms and the systems.

Dear Dr. Indoors  
I have an area 2'x3'x7'. Would a 150 watt grow bulb with a 100 watt fluorescent be enough? I just ordered seed from SSSC and want the light to be correct. LONG LIVE NORML.

F. Coachman

At first your area seems small. I would suggest you split it into two areas of 2'x3'x3'. Then you can use a 175-200 watt metal halide in each area. The fixture should be a horizontal mount leaving 3 feet of vertical grow space. It is very important that the top level has some sort of water barrier to prevent any accidental leakage onto the lower light fixture.

Now, with the seeds from SSSC and a small rockwool system, you can have a two tier sea-of-green grow room!



Dear Doc,  
I'm sending these pictures of our garden. The plants are 5 months old, grown under a 1000 watt metal halide we ordered out of your book. The plants are a Skunk indica hybrid which we call "Criptoe" 'cause it creeps up on you and gets you totally stoned. This is our third harvest since we bought the light. We harvest every 5 months. The plants grow in dirt, vermiculite, perlite, and blood meal placed in 5 gallon buckets

Albuquerque Criptoe

Nice effort, Criptoe. The main bud on the plants are fine, along with the top 12 inches. Build a table for the plants to sit on. Underneath the table mount some fluorescent gro-tubes and build a clone chamber. The table must fit

*continued on page 72*

HT6

Name \_\_\_\_\_  
Street \_\_\_\_\_  
City \_\_\_\_\_  
State \_\_\_\_\_ Zip \_\_\_\_\_

# THE BAGEL SCALE™

## When you need to be precise.



BAGEL SCALE™  
MODEL #105

Only **\$49<sup>90</sup>** DELIVERED\*

A breakthrough in strain-gauge electronic technology assures you of highly accurate measurements . . . you'll always get the exact weight you're paying for!

The BAGEL SCALE™ weighs from 1 gram to 1,000 grams. It is very compact and easily slips into a briefcase, purse or car glove compartment. Ideal for the small office.

It's perfect for weighing portions of food such as nuts, cheese, meat, etc. BAGEL SCALES™ have a tare function that allows you to compensate for the weight of containers in order to weigh liquids, sugar, etc. The membrane key board easily wipes clean.

A built-in calculator with memory can be used to calculate

postage (avoid using too many stamps) or recipe amounts. By pressing two keys, measurements in grams are automatically converted to ounces.

The LIQUID CRYSTAL DISPLAY (LCD) will give you approximately 1 year or longer battery life from 6 AA batteries. The scale mode automatically shuts off after 1 minute to conserve battery life. Accuracy is guaranteed and a 1-Year LIMITED WARRANTY is included.

BAGEL SCALE™ is a trademark of IEKC PRODUCTS GROUP  
© 1988 IEKC PRODUCTS GROUP. All Rights Reserved.

**ALSO AVAILABLE . . .  
ULTRA-SENSITIVE  
JEWELER'S  
GRAM SCALE  
MODEL #338**

Just **\$179<sup>90</sup>** DELIVERED\*

Features LCD and extreme accuracy with resolution from 0.1 GRAM up to 1,000 GRAMS. Uses a 9-Volt Battery and has AUTO SHUT-OFF for conserving the battery. Also has tare function, precision calibration screws and 1 Year LIMITED WARRANTY.

**SAVE \$10 LIMITED TIME  
SPECIAL OFFER** Order 2 #105 Scales  
for just **\$89.80 DELIVERED\***

Or send order form to:  
IEKC PRODUCTS GROUP—Scale Dept.  
1156 West 103rd St.—Suite 154  
Kansas City, MO 64114

**\*FREE DELIVERY ANYWHERE  
IN USA BY UPS.** Street address  
must be provided. Outside USA  
or to P.O. Box please add \$5.00.  
30-DAY UNCONDITIONAL  
MONEY BACK GUARANTEE

**TO ORDER BY VISA/MASTERCARD FROM ANYWHERE IN USA  
24 HOURS/7 DAYS**

**CALL TOLL-FREE 1-800-541-0900**

NAME \_\_\_\_\_  
STREET ADDRESS \_\_\_\_\_  
CITY/STATE \_\_\_\_\_ ZIP \_\_\_\_\_  
Money Order/Check enclosed \_\_\_\_\_ Amount \_\_\_\_\_  
#105: \$49.90 \_\_\_\_\_ /2 for \$89.80 \_\_\_\_\_ DELIVERED  
#338: \$179.90 \_\_\_\_\_ DELIVERED  
VISA/MC NUMBER \_\_\_\_\_ EXP \_\_\_\_\_  
SIGNATURE (required) \_\_\_\_\_

HTM0688



# High Art



*AIDS poster project, a silk-screened poster from 1987.*

## General Idea

As long as we keep time—that is, measure our history in terms of years, decades, or centuries—its numbers shall always have peculiar resonances that subliminally affect us. Time, as such, is a glib abbreviation, a misleading measurement for an entire emotional, economic, political, and artistic climate of an age. The “sixties”, for example, vaguely lumps together the conservative mediocrity of the early part of the decade with the radical renaissance that followed, and arbitrarily cuts off that time from the early seventies. One curious phenomenon in all of this is how centuries have their own psychic life span. At the beginning the years seem remarkably free of their predecessors. Everything is wide open; it's a new age, a leap into the future. But as decades build up they weigh down on us. We continuously refer back to them: the twenties, the thirties, the forties, the fifties.... Near the conclusion of a century, the past crowds us into a claustrophobia of nostalgia, decadence, and a morbid self-fascination with the end—the death of \_\_\_\_\_.

*Fin de siècle* is the phrase many have chosen to describe those periods when the burden of history warps expression into vain, stylized reflections of the past. As the 20th century slips further into the dreaming dotage of its old age, the work of General Idea is emerging as truly the art of the times. A collective name for three artists (AA Bronson, Jorge Zontal, and Felix Partz), General Idea formed in Toronto in the late sixties, and has, in the twenty years since, invented its own manic dandy persona and mythic pageantry of inbred mannerist sophistications. From early films like “God Is My Gigolo”, and kitsch-decorative architectural projects like “The Miss General Idea Pavilion”, to recent paintings of copyright symbols and shields of faux-heraldry emblazoned with shocking pink poodles, they continually elaborate on a slyly derisive caricature of the perverse tastes and vulgar artifacts of the wealthy, cultured elite. Greatness in the *fin de siècle* is not what is new, but the bizarre affectations of its mannerisms. What is most radical is often precisely that which doesn't seem radical at all, like General Idea—more an anonymous corporate identity than the image of the lone, individualistic struggling artist we expect. Their most recent work has been their AIDS posters and paintings (shown here). A reference to Robert Indiana's famous “LOVE”, they've readapted it into a more disturbingly contemporary context, piling up new layers of meaning like thin translucent skins of an onion too tearful to peel in public. ●

*AIDS room, from the Miss General Idea Pavilion installation at San Francisco's Artspace Gallery, 1988.*



**Baby Makes Three, a retouched photograph originally prepared for a poster, eventually used as the cover to the General Idea-edited *File Magazine*, Fall '83 issue.**

# The Motion of Light in Water

Excerpts from the Journals  
of Samuel R. Delany

© COPYRIGHT 1988, SAMUEL R. DELANY





Even within the weirdness-strained confines of the science-fiction subcontinent, Samuel Delany is an anomaly. I mean, how else would you characterize a middle-class private-schooled black dyslexic homosexual single-father and unabashed intellectual who happily writes visionary fiction for a market generally perceived to be populated exclusively by daydreaming arrested adolescents? Certainly not just one of the boys, eh? Delany's been an alien among aliens since 1962, when he published his first novel, *The Jewels of Apor*, at the tender age of 20. Since then he's turned out a steady stream of startlingly imaginative works—novels like 1966's *Babel-17* (which posited language as a socio-military weapon), 1968's *Nova* (a mind-twisting, tour-de-force space opera that many consider to be the cyberpunk prototype), 1975's *Dhalgren* (a huge, densely-textured work that has inexplicably sold like a motherfucker, shattering conventional publishing wisdom that "difficult" books don't sell), 1984's *Stars In My Pocket Like Grains of Sand* (the first part of a science-fiction diptych), and the four-volume "Neveryon" fantasy series, which Delany describes as "a kind of 'child's garden of semiotics'—

sword and sorcery with an interesting philosophical overload." The most recent entry in this AIDS-subtexted mega-work is *The Bridge of Lost Desire*, published in hardcover last fall by Arbor House. Delany has also written some of the sharpest, most carefully thought-out criticism of science fiction and the specialized language it employs (most recently compiled in *The Straits of Messina*, available for \$20.95 mailorder from Serconia Press, P.O. Box 1786, Seattle WA 98111).

The following piece is an excerpt from the recently published non-fiction work, *The Motion of Light in Water, Sex and Science-Fiction Writing in the East Village, 1957-1965* (Arbor House/William Morrow), compiled from Delany's prodigious journals of the time. The guy's prolific on top of being brilliant. Doncha just hate 'im?

(Clarifying note: The Marilyn referred to in the story is Delany's ex-wife, National Book Award-winning poet Marilyn Hacker.)

—Lou Stathus

Across from the trucks at the Christopher Street Pier, earlier that summer, a bar changed owners—though the old name; yes, Dirty Dick's—persisted. The new owner was a brassy, gregarious woman in her early thirties who went by the name of Pat and who, several operations ago, rumor was, had been a man.

The new clientele was largely gay.

Now Marilyn and I went over one night. Catering to the late-teenaged dikes who would be sitting on the church steps as far east as Sixth Avenue, to colorful bebies of Puerto Rican drag queens, to a whole range of truck drivers from the yards around, to various guys who would have liked to have been mistaken for drivers, and to the odd tailored uptown businesswoman, the place was a kind of a haven—even more so for Marilyn than for me.

The bar was oval. There was a dance floor in the back. The story was that the straights stood on one side while the gays cruised the other, with everyone coming together to dance to the music. But such a cut-and-dried scheme hardly ever pertained in the place. It only suggested a categorization that reassured the newcomer—if he or she needed reassurance. The jukebox hit that season was "Walk Like a Man," which produced a galaxy of parochial parodies on the dance floor from both the men and the women there.

Some folks we met there were people we already knew, like Carol, who, with her boy-short hair (in that time when women's hair was always long and men's always short), dressed in slacks and men's shirts, and had managed the Elysee before Bill and Terry; before Marilyn had gone to Mexico, she'd booked in one of my ersatz folksinging groups, either some transient resurrection of the Harbor Singers, or the duo I'd briefly formed with a motorcycle-riding young husband from the Bronx (who was studying creative writing with Margarite Young, when he was not working or rehearsing with me) under the name of Waldo and Oversoul. On our first night together

there, she stood us for drinks and introduced us both to half a dozen other friends.

When, at irregular intervals, a policeman stopped by to check the place out, a light would come on over the jukebox, the dancing couples—mostly male and male—would part, drift back to the walls, and take up their drinks. (Remember, it was five years to Stonewall.) The cop would joke with the bartender, maybe flirt with one of the queens, cast a contemptuous look toward another, then leave. The light would go off. The jukebox would come on. And the dancing would begin—for which Pat, or her backers, paid an outrageous protection.

One of Marilyn's old boyfriends, a Puerto Rican graduate student at NYU, some years my senior, named Rick, dropped by with a wedding present for me: half a dozen dried peyote buttons. "You should try it, Chip. I really think you in particular would get something out of these. You're an interesting kid." I put them, in their small brown paper bag, in a glass dish at the side of one of the kitchen shelves, where they remained, untouched, more than a year.

"Those dried peyote buttons you have up in that paper bag in the corner of the kitchen cabinet...?" Sue said, one day.

"Yeah?" I said. "What about them?"

"Take them," she said. "It breaks my heart to see them just sitting there, day after day."

"What'll happen if I do?" I asked. Sue had introduced pot into the house and was our resident expert on all matters concerning drugs, though much of her information came, I suspect, from a small volume that served a number of sixties types as a bible, *Drugs and the Mind*. "It's similar to mescaline," she explained. (I'd read Henri Michaux's *Miserable Miracle*, the French poet's account of his hallucinogenic experiments, some years ago.) "It tastes awful. I've had some very nice trips on it myself. You'll have to take it real fast and wash it down with beer or something, and you might get an upset stomach anyway. But you'll probably have some real hallucinations."

"After all this time," I asked, "you think they're still good?"

"Very," she said.

"What kind of hallucinations?"

"Well," she explained, "you can be walking down the street and you might see an old tennis sneaker lying there—only, suddenly, it becomes a wholly cosmic tennis sneaker,

vibrating and pulsing with truly universal significance

"Tennis sneaker?" I said. "World in a grain of sand, eternity in an hour—that sort of stuff?"

"You try it! Just get a bottle of beer, like I say. The beer will relax you too, so that the peyote proper comes on easier."

That evening, toward sunset, I cut the hard brown buttons with their bitter, inner tufts into small pieces, for a moment I wondered if Rick's "wedding present" might have been laced with cyanide. Then I swallowed them down with most of a quart bottle of beer. I told Marilyn not to get worried if I were gone for the night. She might catch me over at the bar later.

Then I went out for a walk.

There were no cosmic tennis sneakers, but the sun, lying late on the city, had a liquid solidity in its slant beam across the tenements' crenellations that was different and pleasant. A little after blue smudged away the day's terminal salmon and gold, I watched a glimmering scarlet fire engine, highlit with the streetlights' change from red to green, screeching north on Hudson Street, become a galumphing dragon—though what was far more significant than the banal metamorphosis was that it was the saddest dragon in the world, and when she had passed, her wailing done, and the siren had reasserted itself on the autumn night, my lips were open, my breath was a quiet roar in my mouth's cave, and the tears rolled down my cheeks.

At Dirty Dick's I met Marilyn. She grinned at me. "How are you doing?"

"Fine."

"You look like you're having a wonderful time!"

I tried to smile benignly.

Later, the light came on above the jukebox. The police-

## "Then, an immense turtle crawled up..."

man came in. The dancers drifted back against the wall. Then, the empty dance floor itself split in two. The halves rolled asunder, and, from the revealed darkness, an immense turtle, big as a double bed, crawled up from the fundament of the world, waddled down the aisle beside the bar stools, to the door, and—after the policeman—went out. Then the floor rolled together once more.

The jukebox resumed, and with infinite cool, the dancers moved out over the resealed boards to begin their gyrations, not deigning to comment on the depths I knew their steps now rhythmically covered.

The next morning I awoke in bed with a little red-headed fellow—we were in his apartment somewhere in New Rochelle, he told me. My memory is only of the night's intense, almost Herculean sex. But all that morning, as he made me coffee, as we showered together, as he gave me the money to take the train back down to the city, he kept telling me, "You were describing the strangest things last night—when we were coming up here, I mean. You were really saying some weird stuff. Man, that was some of the strangest stuff I'd ever heard about. I didn't understand most of it. But it sounded so..." (It was not getting high that was the sixties; rather it was this kind of reaction to it.) Fortunately—for you, for me—I don't remember any of what I'd said.

I'd given Terry one of my six author's copies of *The Jewels of Apor* when it first appeared. (My mother got another. And the other four...?) Now I gave her a copy of *Captives of the Flame*. The next Wednesday evening I walked, with Marilyn, across Fourth Street to the narrow coffee shop on Third between Macdougall and Sixth Avenue, the Cafe Elysee, that Bill and Terry were now managing. We passed the Night Owl on the far corner, and

started down the block. "What's that?" I asked Marilyn.

She laughed. "I think Terry must have decided to do some advertising."

On a four-foot black placard, set in front of the cafe and turned to face any tourists wandering from Macdougall, were attached Terry's copies of *The Jewels of Apor* and *Captives of the Flame*. Lettered above them in white was:

SINGING TONIGHT!

THE AUTHOR OF

followed by the two books, fixed to the plaque, with curly white lines around them, AND printed neatly between. Lettered below, boldly in white, was:

SAMUEL R. DELANY!

It all looked very incongruous—if not mindless. But as we stepped inside the narrow space, where the candles on the small tables had not yet been lit, Terry said, "Don't say it. I know—but we have to make do with what we got. I figured it was just weird enough that it might get a couple of people to come inside."

"It's your place," I said, and put my guitar down.

Billy was sitting at one table, laboriously writing something out with a ball-point on a folded piece of paper. When I glanced over his shoulder, he looked up. "A guy called Bob Dylan was in here earlier; he wanted to know if he could sing tonight. Since we don't have someone for a second set, I said sure." Billy got up and I went with him outside, while he squatted in front of the placard and, with two bits of Scotch tape, below my grandly lettered name, added the piece of paper on which, from maybe three feet away, you could just make out:

AND BOB DYLAN

I'd actually seen Dylan perform once in a small, group concert up at Riverside Church at which my friend Ana had also sung. His harmonica and guitar performance had been charming, energetic, and wholly and classically traditional. And among the audience of forty-five or fifty people that had turned out for the tiny auditorium space that held, perhaps, seventy-five, there were clearly about ten or twelve who were particularly enthusiastic about him, and had come specifically to hear him—among the dozen-odd performers that afternoon—and for whom he was clearly playing.

Billy and I went back inside. Billy stepped up to the performance area, with its single chair in the skew spotlight and tapped the mike. There was a slight booming outside above the door, where the speaker projected the sound into the street to attract the warm-weather tourists.

When there were any

As of yet there were no customers.

"You can go on and do a set, just to put some sounds in the street," Billy said. "Don't kill yourself. I just like to hear you play."

"All right," I said. "Lemme just get a glass of water," and I stepped in back of the counter, at the small sink filled a cylindrical glass with water, handed it to Marilyn, expecting her to drink and hand it back to me so that I could take a drink. But instead, she just held it.

So I started to get another glass for myself.

Just then the door flew open, and a breathless young man, in a denim jacket and on the fleshy side, rushed in with his guitar case, plopped himself down in the performance chair, bent to open the case, and pulled out his guitar. Pushing on a couple of steel finger picks, he plucked two, five, half a dozen notes—

"Hey," Billy said, "wait up there—"

I'd recognized the midwestern youth from the Riverside concert as Dylan.

"Now look," Billy said, "I told you you could sing, but we got another performer who's supposed to go on first."

Dylan shook his head, stood up, and said something I couldn't hear.

Terry stepped up beside Marilyn and me.

What altercation over later hours, further appointments that had to be kept, or requests for schedule changes went down I don't know, because just then a passing fire engine set off a yowl of feedback in the microphone. Billy silenced it with a cupped palm.

Dylan picked up his guitar and, a moment later, they were again talking by the door.

"... well, then, don't come back!" Billy said, at last, a little loudly, a little flustered.

And with his case, Dylan rushed out the door as breathlessly as he'd come in.

Shaking his head, Billy put his hands on his hips, looked at us, and really said, "Bob Dylan! Who does he think *he* is...?"

Then he went outside, squatted before the placard. Through the glass door, I saw him tear off the taped-up paper strip.

In that age when popular music did not speak for its young people, folk music occupied a position hard to explain today. The people who went out into the mountains and forests of America (or, indeed, any other country) to collect it were scientists—anthropologists. The people who learned it and sang it, as close as possible to the traditional manner in which it had been sung by the people who made it up, were dedicated artists. (And the possibility that I might spend my life as a fine folk musician, performing in folk clubs, giving concerts, and making albums, was as exciting to me as the possibility of being a great writer or a physicist.) At the same time, you could write your own—about anything you wanted.

Two years later Dylan was to make a revolutionary crossover, when he decided that the American youngsters who bought millions of pop music records a month were just as much "folk" as the banjo-twangy miners of Appalachia, and electrified his music, not in an exploitative gesture to make folk music acceptable in suburbia (that had been done many times before), but rather to create a music that spoke for people who simply had been allowed no voice till now by a culture engine that drummed only banal love lyrics into the ear twenty-four hours a day. The result was that American music—folk and pop—would never be the same.

But the idea that the author of *The Jewels of Apor* and *Captives of the Flame* once, as a singer, had his name in substantially larger letters above Bob Dylan's—even for five minutes—has always made me smile.

I woke to sirens, rolled in the sweaty sheets of the persistent Indian summer—I remembered no scheduled test. Just then, outside the apartment, a jet snarled somewhere on the sky. Could that be the plane with the bomb, I thought, idly. Lying there, I got chills—and immediately tried to reason them away. This was the sort of coincidence, I thought (blinking at the dull window), that can ruin a good day.

Then the window filled with yellow light.

I leaped from the bed, taking the sheets with me. My throat cramped, my heart exploded in my chest, while I watched gold fire spill window to window down the tenement across the street.

The fireball!

The thought quivered beyond the pain in my body that, in each of its parts had gone, individually, into terror. The light's here now, I thought. The shock and sound will arrive in four seconds, five seconds, and I will be dead...

Four seconds, five seconds, seven seconds, ten seconds later, I was still standing there, trying to think of some place to hide.

The clouds, in coincidence compounded, had simply pulled away from the sun. The plane was gone. The little electric clock on the bookshelf said noon. The siren—

which, of course, went off at that time every day—lowered its pitch, softened its whine, and ceased.

That was the month, of course, of the Cuban missile crisis. Over the days of the event, newspaper and radio—we had no television—were filled with nothing else. History has remembered the event as one of Kennedy's successes that somehow compensated for the embarrassment of the previous year's Bay of Pigs invasion. But what the American public lived through was an anxious week when, yet again, World War III seemed momentarily imminent.

On the day of the special U.N. session, Marilyn and I were visiting at my mother's where, indeed, we watched the special session, running on all channels, with most of New York City, with most of the country.

At the U.N., the United States would speak. Russia would speak. And Cuba—the country at the center of the dispute—would speak. All the major TV channels were covering the sunny afternoon's proceedings at the same time—as, indeed, were most radio stations. Perhaps because we owned no television ourselves, when Marilyn and I came into my mother's apartment to hear the coverage we turned on the radio out of habit.

"That evening, I cut the hard brown buttons with their bitter, inner tufts into small pieces. Then I swallowed them down with most of a quart bottle of beer..."

A small educational station, Riverside Radio, was giving its report on the all-day goings-on at the United Nations.

"You know it's on television too," my mother said; so I turned on the TV in the corner. The sound coming from the radio and the TV speakers—the opening remarks by the Secretary General—was identical, so there was no reason to turn the radio off.

We settled down on the couch to watch and listen.

The U.S. ambassador to the U.N. made his statement. At the end there was a shuffling of papers; a few people coughed.

CBS switched, after a few moments, to a news analyst, who gave a minute or two of commentary on the U.S. statement, while on the radio behind us, the noise of coughing and shuffling continued in the Security Council Hall, until the Secretary General stepped to the podium to introduce Ambassador Valerian Zorin from the U.S.S.R.—and once more the sound from the TV speaker and the radio speaker became congruent.

The Soviet ambassador made his statement. The translator's words came over the Russian, like a vague ghost, leading to the halting English version, through both the speaker behind us and speaker before us. The statement was greeted with a similar silence, similar shufflings, similar coughs. Once more CBS cut to a news analyst, and once more the radio simply overlaid it with shufflings and coughings and the sounds from any large meeting hall between activities. (On the radio, now, an announcer's voice, with the timbre of adolescence, came on to identify the station, once more, as Riverside Radio.) When the Secretary General resumed the podium, a minute later, again the speakers' sound became one. The Cuban ambassador was introduced. In Spanish, he began to talk.

*continued on page 77*





*Plantlets at SSSC under a combination of 400 watt HPS and MH lamps. The plantlets were grown in 3-1/2 inch rockwool cubes placed about four per square foot. At SSSC, the plants are put into flowering immediately after rooting.*

## NO SWEAT

*continued from page 59*

### WHAT WATT TO USE

Fluorescents do not emit much light at either six inch end of the tube, so 4-foot tubes will support a garden three feet long. Eight-foot tubes will support a garden 7 feet long. It is hard to fit more than two tubes per foot of width in a space. This is a minimum amount of light required to maintain a decent growth level and to produce nice buds. A fluorescent uses about 10 watts of electricity per linear foot. Two tubes per foot of width uses about 20 watts of electricity per square foot (counting the unuseable space at the end of each tube).

Top lighting, at best, produces fair flowering. With additional side lighting flowering is increased. For instance, a closet 8' x 3', a total of 24 square feet, could use six 8-foot fluorescents on top. During flowering, the lights should be supplemented with four 8-foot fluorescents hung at the far side of the garden at the

bud height. Four foot tubes could also be placed at either end of the garden.

Gardens should be lit by a minimum of about 20 watts per square foot of growing space using HID lamps. Lower wattage lamps are less efficient than high wattage so gardens lit by them should get about 25 watts input per square foot.

### CO<sub>2</sub> AND AIR

In order to use the light energy shed on the leaves, the plants require adequate supplies of CO<sub>2</sub> and water which are the chemical ingredients in the equation. In a closed environment such as a closet, the CO<sub>2</sub> is quickly used up. Once that happens, photosynthesis stops until the CO<sub>2</sub> is replenished. There are two basic ways to do this. A good ventilation system will replace the used up oxygen very inexpensively.

Plants have the ability to photosynthesize at much faster rates than they ordinarily do. Their metabolism is slowed by the quantity of CO<sub>2</sub> available in the environment. When the amount of CO<sub>2</sub> in the atmosphere is increased, the rate of photosynthesis and ultimately their growth rate increases. Their time to maturity is decreased substantially.

CO<sub>2</sub> can be injected into a closed growing area using a CO<sub>2</sub> tank equipped with a regulator. The regulator units cost between \$100 and \$200. This is no small amount of money, but it increases the growth rate by 30-40%, as compared with a well ventilated space, and by a much higher rate than a closed space.

The tanks come in 20 and 50 lb. capacity sizes. The 20 lb. size is much more convenient to move than the 50, which weighs 170 lbs. The tank and regulator can be located outside the growing room with just the tube carrying the gas inside. Most units use no electricity. The ones which do, use a minimal amount.

Usually the atmosphere has about .05% CO<sub>2</sub>. This can be raised to about .5%. Figure on injecting an ounce an hour when the lights are on. You can make a cheap CO<sub>2</sub> system using sugar and yeast (see HIGH TIMES September '87).

### THE GROWING MEDIUM

Most people do not realize that they have been growing plants hydroponically

*continued on page 73*

# PRODUCTS

## MINI-OASIS AT THE OASIS/10

The **Oasis/10** is a new hydroponic grow system that offers easy operation, simple assembly, and convenient expansion capabilities. Simply put your seeds or cuttings into Rockwool cubes and place them into plastic cups with openings in the bottoms. Then insert the cups into the **Oasis/10** and let nature take its course (with a little help from you, naturally). Made of extremely durable maintenance-free materials, it assembles in less than an hour, and has a removable sealer to provide expansion of up to 40 feet of grow chamber once the need for large-scale production arises. Price is \$285.95 per 10-foot section. For more info, write to **Oasis**, PO Box 1539, Granite City, IL 62040 or call (618) 877-2275.



## MAXIMUM CELEBRATION

To celebrate the success everyone is having with **Maximum Lights**, and to announce new 400-watt metal halide and HP sodium lights and their sealed aluminum-alloy ballast boxes

(with 90% reflective hoods), **East Coast Hydroponics** is offering 100% cotton tie-dyed t-shirts with the **Maximum Lights** logo. These shirts are available for \$12.00 plus \$2.00 postage and handling from **East Coast Hydroponics**, 432 Castleton Ave., Staten Island, NY 10301. Join the celebration!

## WATER STORAGE AVAILABLE!



With the **KOLAPS-A-TANK** storage system, you can store up to 1340 gallons of water in a single collapsible container. This durable tank features a 10-inch flexible sleeve for fast, easy filling and a 1 1/2-inch gate valve so it can be emptied simply. **KOLAPS-A-TANK** comes in six sizes, ranging from 275 gallons to 1340 gallons, and folds up to an amazing 18x18x18 inch unit for easy transport. **KOLAPS-A-TANK** can be purchased, along with many other hard-to-find industrial products, from **Domestic's** 1988 supply catalog. You can get the catalog for \$1 (\$2 air mail) from **DGS**, PO Box 809, Dept. D, Cave Junction, OR 97523. For credit card orders call (503) 592-3615.



## NUTRIENT

After years of research, **Foothill Hydroponics** has developed a complete new line of chemical nutrients. The micro-elements are all chelated so they can be completely absorbed, and their pH stabilized formulas eliminate the need for acid or lime. These 100% soluble nutrients leave no residue and may be used with any type of irrigation system. In addition, they have two Rockwool formulas: one to provide extremely fast vegetative growth, and another for massive floral formation. For free plant nutrition guide and catalog, write to **Foothill Hydroponics**, 10705 Burbank Blvd., N. Hollywood, CA 91601.

**NPS**

# THE ENERGY SOURCE

**Mental Alertness Aids,  
Diet Aids & More:**

#11 4 Ephedrine Tablets	\$20.95/1000, \$6.95 100
#15 10 Caffeine Tablets	\$25.95 1000, \$7.95 100
#111 Magnum 357	\$30.95/1000, \$9.95 100
Extra Strength Caffeine Tablets	
#12 17 Caffeine Capsules	\$35.95/1000, \$9.95/100
#18 Soma: Pap Sleep Aid	\$12.95 100
#19 L Tryptophane Sleep Aid	\$8.95/60
#20 CPC Cold Capsules	\$12.95 100
#2 Grapefruit Diet	\$9.95/60
#22 PPA Diet Phenylpropanolamine	\$9.95 100
#23 Fast & Calorie Diet	\$12.95 100
#24 Super Nite Diet	\$9.95/60
#25 CCK Diet	\$9.95 60

**NPS**  
#20 N. Winchester  
Portland, OR 9722

Toll Free:  
(800) 342-6555

In Oregon:  
(503) 282-8884

## Stimulants

- Liquid Aromas
- Room Odorizers
- Incenses
- Scales
- Accessories

## Super Scent Pseudo Flame Milky Trails

1/4 oz. \$45.00 1 oz. \$100.00

## Moroccan Incense

1 oz. \$20.00 1 lb. \$125.00

VISA & MASTERCARD  
C.O.D.'s

Call or Write Today  
For Prices

**513-851-5999**

**P.D.C. LABS**

P.O. Box 46755

Cincinnati, OH 45246

No sales to minors under 18

## CALL TOLL FREE FOR ORDERS ONLY

800-435-0715

In Ill. 800-892-0753



- ☐ Payment enclosed  
☐ MasterCard ☐ Visa

Card #: \_\_\_\_\_

Expiration date: \_\_\_\_\_

Signature: \_\_\_\_\_

HIGH TIMES  
SUBSCRIPTIONS  
P.O. BOX 410  
NY MORRIS, IL 61064

### UNITED STATES

- ☐ 1 YEAR \$29.95  
☐ 2 YEARS \$54.95  
☐ BEST OF HIGH TIMES VOL. VI, \$4.95

### CANADA & FOREIGN

- ☐ 1 YEAR \$37.45  
☐ 2 YEARS \$68.95

Name: \_\_\_\_\_

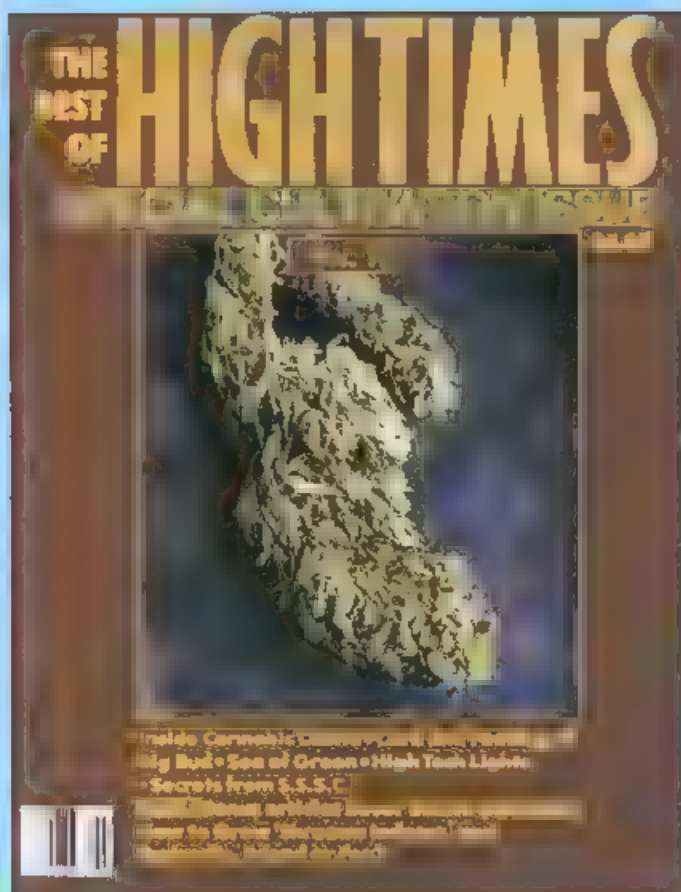
Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

PLEASE PAY IN U.S. FUNDS - ALLOW 6-8 WEEKS FOR DELIVERY.

Our new Best-of HIGH TIMES with all those great mindbending articles of the past three years you may have missed: Inside Cannabis Culture, Sea of Green, High Tech Lights, and Secrets from S.S.S.C. This 108-page, perfect bound, collectors' edition also includes our most hilarious true story (The Acid Apocalypse); and a chilling tale of a cop gone psycho (The Sauk City Shooting).

Plus two bonus features never before published: Rudeness, Friend or Foe (a controversial must-read for every grower in America) and How to Grow 'Shrooms by Stephen Peck. On sale at newsstands every where April 5th at \$4.95.





# Ask-ED

continued from page 58

Dear Ed,

Many interspecies hybrids are sterile; they cannot produce offspring. Is this true in the case of cannabis? Are cannabis hybrids sterile?

Thanks for the help,

—Bud Intensive

Oshkosh, Wisconsin

Most researchers think that all cannabis varieties are part of the same species. Although the varieties may have some differences in the way they look or in their growing habits, genetically they are very similar. There has never been a problem in getting viable hybrid seed and fertile hybrid plants from marijuana crosses.

Dear Ed,

Would it be possible to isolate and clone the genes responsible for THC production and produce the substance in a nutrient bath?

—Unsigned

U.S.A.

The rule in genetics is one gene/one enzyme. In other words, each gene is responsible for the production of one chemical. The production of THC is the result of a number of genes which produce different chemicals which each play a part in the production of the end chemical. Scientists think that the pathway to THC begins with olivetol, which is converted to cannabidiol, which is converted to THC.

Typically, all of the genes associated with a series of interactions that produce a chemical such as THC are found on one chromosome. Once the genes associated with these reactions are mapped, they can be removed from the cell and placed in another organism such as a yeast or bacteria. When the genes expressed themselves in their new host organism, they would start producing THC. Since yeast and bacteria are both relatively easy to culture and since they have a rapid rate of metabolism and production, harvests would take days to produce.

● I welcome comments, tips, and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E. 43rd St., New York, NY 10017. Also send entries for the Bud, Plant, and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, **Marijuana Growers Handbook, Indoor/Greenhouse Edition**.

● By submitting your photograph(s), you hereby grant permission to publisher to reprint the photograph(s) in HIGH TIMES magazine as well as any other Trans-High Corporation publications.

HEY!

DON'T GET CAUGHT WITH YOUR PANTS DOWN!!



## Uri-Clean

ATHLETES\*  
MILITARY\*  
JOB APPLICANTS\*  
EMPLOYEES\*

DISTRIBUTED BY:  
WHITE SNOW PRODUCTS  
496A HUDSON ST.  
SUITE K-80  
NY, NY 10014

**\$29.95**  
PARTY-HEARTY CLEAN  
IN 3 DAYS

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

ZIP \_\_\_\_\_

## Greatest yield with COMBO MH/HPS horizontal light!

- Best color light spectrum for maximum growth and flowering by combining MH 400 & HPS 400 in one system
- Most intense light lumens with a turbo ventilated electro-white horizontal aluminum reflector. Size: 24"x20"x10"
- Highest quality from Hamilton Technology. The system comes complete with remote, heavy duty, ventilated, ballast box which operates quietly. Each light can also be used separately. Reg. \$375.00 **Sale \$299.00**

## NEW Mini-Horizontal

MH175w 15k lumens. Reg. \$132.00 **Sale \$95.00**

HPS150w 16k lumens. Reg. \$135.00 **Sale \$95.00**

## Complete Indoor Growing Supplies

Grow Lights, Hydroponics, Mylar, Rockwool, Timers, Co<sub>2</sub>, etc

Free Catalog, See our ad on page 12.

Visit our Los Angeles showroom Large Inventory. Orders Shipped Within 24 Hours

## Highest quality products at lowest prices.

HAMILTON TECHNOLOGY CORP 14902 S. Figueroa, Gardena, Ca. 90248

ORDER TOLL FREE: (800) 458-7474 • (In California: 800-635-3344)

## Need NEW ID? PRIVACY?



How to get new ID from government sources. State ID's, Birth Certificates, Drivers Licenses, new SSN, Passports, Diplomas, Degrees by mail. Get better jobs. Cover negative records. Solve fingerprint problems. Disappear Start life over!

#1 ☐ \$15.95



Clear bad credit. End debts Establish new credit Receive all kinds of credit cards. Establish new credit Clever credit maneuvers All your "credit rights" and more!

#2 ☐ \$9.95

HOW TO BEAT THE BILL COLLECTOR. Sharpest rules of the credit game.

#3 ☐ \$5.95

100 WAYS TO DISAPPEAR. Inspiration for privacy.

#4 ☐ \$3.95

Create your own privacy! Discover best low-profile methods. Financial privacy. Cash income opportunities. Banking alternatives. Secret hiding places. Avoid violence, surveillance. Hide your assets. Protect mail, telephone. Using other "names" Disguises Codes. Hideouts. Deep cover. Multiple addresses, and more!

#5 ☐ \$18.95

More on new identity. Legal name changes. How to disappear using legal changes. Adopt an alias. Laws on fake ID. "Take-over" ID Codes used on drivers licenses, SSN, military SPN. Avoid passport problems. Do-it-yourself ID. Sources of private-issue ID. Much more!

#6 ☐ \$17.95

## SPECIAL COMBINATION OFFERS

☐ Books 1-4 \$29.95 ☐ All 6 Books \$49.95

Total of Order: \$ \_\_\_\_\_  
(Calif. residents add 6% sales tax)  
Postage & Handling (Your choice) { Fourth Class ☐ 2.00  
FIRST CLASS ☐ 5.00

TOTAL: \$ \_\_\_\_\_

☐ Send current Book Catalog FREE

SEND TO:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

EDEN PRESS • 11623 Slater "E" • Box 8410-HT • Fountain Valley, CA 92728



DRIP  
EMITTERS

PLUS

DAVID'S  
**BEST  
YIELD**  
SYSTEMS  
FROM  
**\$59**

LET DAVID HELP YOU SELECT  
THE RIGHT LIGHT & SYSTEM  
TO FIT YOUR NEEDS

OR

EBB &  
FLOW

**ALTERNATIVE**

GARDEN SUPPLY INC.  
THE PREDATOR MITE PEOPLE  
FOR A FREE CATALOG CALL

**(800) 444-BUDS**  
(2 8 3 7)

DANISH EBB & FLOW TABLES -  
U.S. & ISRAELI DRIP SYSTEMS  
HYDROFARM & DUTCH P.L. LIGHTS

AGS INC. STORES:

**CHICAGO**

C.I.G.S.

108 N. BARRINGTON RD.  
STREAMWOOD, IL 60107

(312) 289-4545

**CINCINNATI**  
OPENING SOON

## Put your plants in the best light.

### With our exclusive Mini-Might Grow Lights.

Our popular HPS150  
uses a high pressure  
sodium lamp with  
an ideal color  
spectrum for  
budding and  
flowering.  
Costs only 15¢  
a day to operate.

Our new MH175,  
with a metal  
halide lamp is  
perfect for all  
stages of  
plant  
growth.  
Only 18¢  
a day  
to run.



8 ft. Power  
Cord.

Self-contained  
Transformer  
and Igniter.

Super  
Reflective  
Hood.

175 watt Metal  
Halide Lamp  
(15,000 lumens).

150 watt  
High Pressure  
Sodium Lamp  
(16,000 lumens)

SALE  
PRICE **\$99**  
EACH

Reg. **\$139**  
PLUS  
\$5.00 shipping  
anywhere in USA.

ONE YEAR PARTS & LABOR GUARANTEE  
30 DAY MONEY BACK GUARANTEE - NO ST  
ORDERS SHIPPED IN 24 HOURS - C.O.D.  
ORDERS WELCOME - NO DEPOSIT REQUIRED  
QUANTITY PRICES AVAILABLE - CALL  
FOR FREE CATALOG

See complete product listing inside front cover



**ENERGY SAVERS UNLIMITED, INC.**

22138 SOUTH VERMONT AVE., - C. TORRANCE CA 90502  
Call Toll Free: **(800) 421-2994** (outside California)

**(800) 538-3400** (In California)

## DR. INDOORS

continued from page 60

from corner to corner to allow a 24 hour light cycle, while the main buckets are on a 12 hour flower cycle. This will allow you to grow several batches of clones and to put several small plants per bucket. You could have six to eight main bud stalks in each bucket. That way you can harvest every 60 days, instead of every five months. If you get rid of the buckets and enter the hydroponic age, you can grow more, with better results. With a mini-trellis, the buds can grow heavy and not fall over. You could harvest 40 main tops instead of five and harvest a total of 200 main tops each year.

Dear Doc,

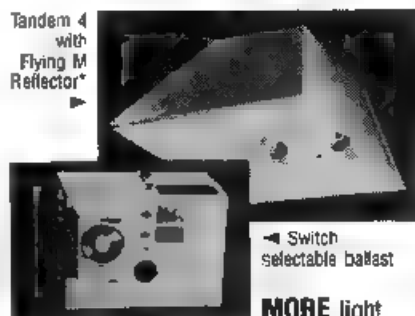
My room is 5'x4'x6' In it I use four 150 watt HPS lights horizontally mounted. It has good ventilation and the walls are flat white. My confusion is about what to grow my plants in I don't know if I'll buy the Dansco Hydro Cell II, the SGS Europonic system, the Good Buddy system, or some other hydroponic system. Please give me some advice I think your magazine is great.

Mr.P

Judging from the size of your room, a Dansco Hydro Cell II might be too much system for the area. Their basic unit, the Hydro Flo I, would fit better. It covers a 4'x5' area, leaving some room to move around the system. The Good Buddy system will also fit your needs. Both allow you to remove individual plants without disturbing the rest of the garden. The Dansco system seems to give the most grow area for the space. The SGS is another possibility, for it effectively uses the space in a complete rockwool system. All three are completely different in how they work. You have to decide for yourself which system meets your needs. I would suggest that you contact each company and get information about their systems. Compare, then pick the one that is most appealing to you. I can't recommend one system over the other. There are many systems available. Check them out. Soon Dr. Indoors will compare the systems available, side-by-side, and discuss the pros and cons of each system.

In one of my previous columns someone mentioned Grorox in their letter and I told them what to do about the pH. I did not mean to imply that Grorox is a bad product. Grorox is a tradename of a grow medium by Diamond Lights. Please do not ask me to pick one hydroponic system over another. Address all questions about indoor growing to Dr. Indoors, HIGH TIMES, 211 E. 43rd St., N.Y. NY 10017 ●

**NEW!** The **TANDEM®** series  
now combines the power of  
**HALIDE and SODIUM**  
in **ONE LAMP!**



**MORE** light  
than a 1000w halide but with **LESS**  
power. **BETTER** spectrum!

Don't be fooled by flimsy copies.  
Ask for test results and then decide.  
Geotechnology has been manufacturing  
horizontal reflectors longer than all the  
competition **COMBINED**.  
No assembly required

Tandem 4—400w MH/HPS \$319  
Tandem 10—dual 1000w system \$525  
\*Add \$59 for Flying M on Tandem 4 (included in Tandem 10)

**Geotechnology**

The high tech lighting company

1035 17th Avenue, Santa Cruz CA 95062  
(408) 479-9981 CA, (800) 346-2321 USA

Ask for our free catalog  
and we'll also send a list  
of free technical literature  
©Geotechnology 1988

**BEST!**

# DETECT PLANT SEX



Don't Waste Growing Space.  
Get Rid of Male Plants  
**GROW ONLY  
FEMALE PLANTS**

Each Female Plant Detection Kit Contains  
Everything You Need to Detect the Sex of Ten Plants  
**WORKS ON** • Just Starting or Full-Grown  
**ALL PLANTS** • Outdoors or Indoors  
• All Seasons

**100% EFFECTIVE**  
**SATISFACTION GUARANTEED OR  
YOUR MONEY BACK**

**RUSH ME** ☐ 4 KITS \$19.95  
☐ 8 KITS \$34.95  
☐ 1 KIT \$7.95 ☐ 20 KITS \$79.95  
☐ 2 KITS \$13.95 ☐ 100 KITS \$345.00

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_

Diesel Botanical Research and Study Group  
P.O. Box 7665, Stanford CA 94305  
NOW AVAILABLE IN EUROPE, TOO.  
Ask for one at your local shop.

# NO SWEAT?

continued from page 68

for years. When a plant is placed in a container it starts to grow using water and CO<sub>2</sub> and various nutrients which the roots absorb. After a while the nutrients in the soil are used up, plant growth slows, and the plant may show deficiency symptoms. Then fertilizer is added to the water and the plant starts to thrive again. When the fertilizer is added to the water, the plant was fed hydroponically. The soil acted as a non nutritive medium which held both water and the nutrients mixed and dissolved in the liquid.

The only difference between formal hydroponics and the soil in the container is that the hydroponic medium started off with no nutrients and the soil's was used up.

Hydroponics is easier than soil to set up and just as easy as soil to maintain. Although you have probably read material that tells you how hard it is to grow hydroponically, you will find that it is the easiest way to grow plants.

## THE MEDIUMS

Instead of growing with mediums composed of little particles, sand, stone, or compositional mixes, you will be growing with substrates. These are composed of a single block of material or layers of material. Here are the ones you should consider:

**Foam Rubber**, four inches thick. You can get scraps from a dealer or cut up a discarded foam mattress. Foam does not absorb water the way other mediums do, so it can only be used in the hand watering method.

**Floral Foam**. This comes in bricks at florist supply houses.

**Rockwool Blocks**. Available from hi-tech garden supply companies. Make sure to buy only the blocks. The loose stuff is dangerous to work with since it is composed of filaments similar to the pieces found in glass wool. Always wear rubber gloves when working with the material.

**Upholsterer's Foam**. Comes in various thicknesses. The material is very light fibred. It can be rolled up and tied to make the size container desired.

All of these materials are inexpensive, very lightweight (both wet and dry), and need no containers, since they are solid pieces. They require little prep time. To remove any chemicals that might be left over as a residue of manufacturing, the floral foam and foam rubber should be washed with a dishwashing liquid and thoroughly rinsed so that none of the detergent stays on the material. To start, the pieces of material should be about four inch squares.

Regular mixes. These systems can

continued over

**PALADIN  
PRESS**



## SCREW 'EM!

Want to get even with someone? Then do it! And don't risk violence or extremes that might backfire. Take our advice and strike from the shadows.

Get Even will show you how. George Hayduke, master of vengeance, has organized his subject well. 84 chapters tell you how to get revenge on horse's ass individuals and institutions of all kinds. Landlords, ripoffs, two-timers, utilities, bosses, ex-friends, don't let them get away with it! Publicly humiliate your enemy, ruin his marriage, run him out of town—all the while exposing yourself to no risk. Get Even is the definitive reference volume for everything from simple pranks designed to confuse and annoy to major mayhem that will reduce your enemy to a quivering fear freak. Get the satisfaction of evening the score. This book is the real thing! For entertainment purposes only.

5 1/2 x 8 1/2" hardcover, 190 pp. \$16.95

### TO ORDER

Send check or money order for \$16.95 plus \$3 P&H to  
**PALADIN PRESS**, P.O. Box 1307—Boulder  
(CO) 80306

OR CALL TOLL FREE, 24 HOURS A DAY

VISA or MasterCard holders only

1-800-642-8300, ext. 24, any state but Alaska.

Send \$1.00 for latest **PALADIN CATALOG**.

For customer service, call (404) 443-7250

**DEALER INQUIRIES INVITED!**

**MONEY-BACK GUARANTEE!**

## NUTRIENTS

Use Only The Best

Exact ng quality control for soil or hydroponics.

proportionate chelated micro-elements

Self adjusting Ph stays balanced

100% soluble powder concentrate

### ORDER NOW!

No. of lbs	Foliar Spray Compatible w. synthetic	No. of lbs	Vegetative
<input type="radio"/>	32-10-10	<input type="radio"/>	20-6-16
<input type="radio"/>	25-0-25	<input type="radio"/>	20-10-20
<input type="radio"/>	Root Booster 10-55-10	<input type="radio"/>	Bloom Booster 9-30-12
		<input type="radio"/>	6-30-30

One lb \$9.95/3lb \$24.95/ + \$2 P&H

Indicate no. of lbs in circles above

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

SEND CHECK OR M.O. TO

*Foothill Hydroponics*

10750 Burbank Blvd. N Hollywood Ca. 91601  
Chemicals separately available upon request.  
For more info call (818) 760-0688



The leading edge  
in growth technology

# HYDRO TECH

Mon-Thur 10-7 Fri 10-6

Sat 11-6 Sun 12-5

COMPLETE

Hydro Packages

High Pressure Sodium Packages

Reflectors

Hydroponics

Drip Irrigation Systems

Timers, Breakers,

CO<sub>2</sub> Supplementation

Fertilizers & Nursery Supplies

(U.S. LISTED)

Authorized Distributor

for General Hydroponics

**Send \$1 for Catalog to:**  
**Seattle, Washington**

PORTLAND STORE:

10929 N.E. Sandy Blvd.

Portland, OR 97220

T-503-254-7466

SEATTLE STORE:

3929 Aurora Ave. N.

Seattle, WA 98103

1-206-547-2202



## WHIRLIGIG LIGHT TURRETS

*The Original Automatic Light Rotator!*

- ADJUSTABLE-GETS LIGHTS WITHIN AN INCH OF PLANTS WITHOUT BURNING
- WORKS WITH ANY SYSTEM
- COVERS AREAS 8" SQ. MIN. TO 14" SQ. MAX.
- LIFE TIME GUARANTEE ON ALL PARTS - MOTOR 1 YEAR GUARANTEE
- TWO MINUTE CYCLE
- SOLD AT MOST INDOOR GARDEN STORES

*Best Buy for the Dollar!* **\$119.00**

For more information write or call:

THE REED COMPANY  
16714 S. MERIDIAN ST. #239  
PUYALLUP, WA 98373  
(206) 847-7601 IN WA



1-800-826-8259

# NO SWEAT

continued from previous page

also work using regular potting mixes that are available in garden centers. One popular formula is one part each vermiculite, perlite, peat moss, compost or earthworm castings.

## THE SET-UP

There are three ways to set this system up as far as watering goes: either of two low-tech automatic systems or hand watering. Using hand watering, you will have to water the systems once a day to start, and after they get going they may need water twice a day. Upholsterers foam does not have enough mass to hold a lot of water and should be used in the automatic system only.

With the hand watering system, all that is required is a tray for water to drain into, the growing substrate and a watering can. Set the growing cubes on the tray and water them each day. The most convenient size tray to use is a dishpan tray. It is deep enough to hold the cubes without spilling water and the trays are a convenient size to hold and move around.

The automatic systems are easy to set up. They both require trays, a watering can, and the grow cubes.

## THE WICK SYSTEM

Just as water travels up the fibers of a tissue, water will travel up any of the grow cube materials. It also travels up braided nylon rope. First a piece of 3/8-inch braided nylon rope is pushed into the substrate leaving a long tail that will hang down to the bottom of the tray. This is easily done with floral foam or rockwool. Then the cubes are placed on bricks or plastic inside a dishpan tray so that they are raised about three inches from the bottom. Fill the reservoir to just below the bottom of the cubes. Once they are wet, the cubes will draw water from the reservoir through the rope.

## THE RESERVOIR SYSTEM

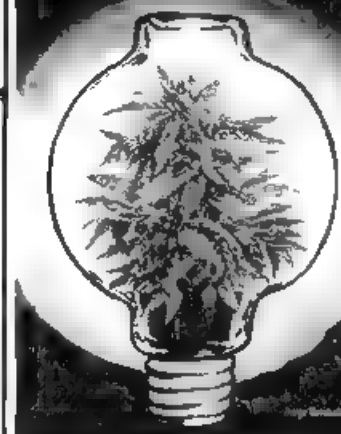
The reservoir system eliminates the rope and brick. The cubes are placed in the tray. Water is added to a depth of 2 1/2 inches. A bubbler attached to a small aquarium pump aerates the water in the tray. When the water in the tray falls to one inch, the tray is refilled. If you are using several trays, a gang valve will distribute the air to several bubblers.

## PH

PH for our purposes is a measure of the acid/alkalinity balance in the solution. This is important because plants can absorb nutrients best when the pH is between about six and seven, slightly acid

continued on page 77

## Indoor Marijuana Horticulture



# #1 Bestseller!

The book all indoor growers must have. It is the most complete, authoritative, up-to-date book on indoor marijuana cultivation ever!

This 288 page edition is profusely illustrated with over 250 photographs, drawings and graphs. Packed full of information on grow rooms, grow lamps, electricity, container gardening, water fertilizer, hydroponics, air, CO<sub>2</sub>, bugs, fungi, cloning, harvesting, breeding and a garden calendar, index and glossary. \$18.95 + \$3 S&H = \$19.95.

Books-by-Phone, PO Box 522, Berkeley, CA 94701

(800) 858-2665 Nationwide

(800) 922-2665 in California

## PSYCHEDELIC CHEMISTRY



PSYCHEDELIC CHEMISTRY

by Michael Valentine Smith

5 1/2 x 8 1/2, 204 pp, illustrated, soft cover

The best and most complete book ever written on how to manufacture drugs! Out-of-print for years, now available again in a completely revised and updated edition. THC, Magic Mushrooms, Mescaline, Harmaline, Muscimole, LSD, Cocaine, and much, much more! Use the handy coupon below to order your copy today -- you will be very pleased, we know.

Loompanics Unlimited

PO Box 1197 Pt. Townsend, WA 98368

Please send me \_\_\_\_\_ copies of PSYCHEDELIC CHEMISTRY I enclose \$14.95 + \$2.00 postage & handling for each copy.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Zip Code \_\_\_\_\_

# Oh! Calcutta!™

THE CHILDREN OF THE ORIGINAL AUDIENCES ARE NOW COMING TO SEE "OH! CALCUTTA!" AND THEIR CHILDREN DOUBTLESS WILL, TOO!"  
TIME, 1986



The World's Longest-Running  
Erotic Stage Musical Comedy  
AT THE  
**EDISON THEATRE**  
47th Street West of Broadway 302-2302

Call **TELETRON**® (212) 947-0033,  
(516) 794-2560, (201) 343-4200  
(24 hours - 7 days)

Also at **TICKETRON**™

Tickets at the box office, or  
by calling 302-2302  
10AM to Midnight, 7 days a week  
Credit Cards welcomed everywhere.  
For mature audiences only

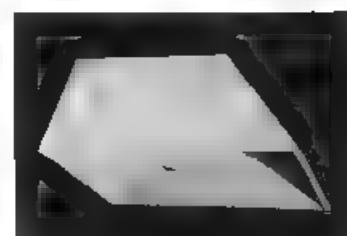
# WHY BUY FROM US?

## New Product Announcement THE FLYING M® LIGHTING SYSTEMS

The Most Efficient Reflector Available\*

### THE FACTS SPEAK FOR THEMSELVES

- FACT** Geotechnology has been manufacturing horizontal reflectors longer than all the competition **COMBINED**
- FACT** 3 feet under a typical 4 foot round reflector hanging a metal halide lamp vertically, a GE light meter reads 1400 foot-candles.
- FACT** With our standard **HORIZONTAL REFLECTOR**, that reading jumps to 2000 foot-candles—A **42% IMPROVEMENT**.
- FACT** With the **NEW FLYING M REFLECTOR** that reading improves to 2400 foot-candles—A **72% IMPROVEMENT**.
- FACT** All readings are **EVEN HIGHER** using the high pressure sodium lamp.
- FACT** Horizontal reflectors take up **LESS ROOM OVERHEAD**. They can be **MOUNTED IN CORNERS**. They can be used for **SIDE LIGHTING**.
- FACT** The Flying M is the most efficient reflector available, **AND WE CAN PROVE IT**. Ask for test results against other reflectors.



The Flying M Horizontal Reflector

### PRICES

Standard 1000w FLYING M 400 watt

HALIDE SYSTEM	\$198	\$257	\$138
HP SODIUM	264	323	198
HP/MH 400w combo	—	378	319
HP/MH 1000w combo	—	625	—

- PRODUCTS:**
- HID LAMPS
  - LIGHT MOVERS
  - ROCKWOOL
  - HYDROPONICS
  - CO<sub>2</sub> SYSTEMS
  - NUTRIENTS
  - NEGATIVE ION GENERATORS
  - BOOKS
  - FREE TECHNICAL INFORMATION



360w HP conversion lamp \$65  
940w HP conversion lamp \$130

### Geotechnology

The "high tech" lighting company  
1035 17th Avenue  
Santa Cruz, CA 95062  
12 years in business manufacturing horizontal lighting systems

Make **EFFICIENT USE** of all that power you are using. **BUY** the Standard or the **FLYING M HORIZONTAL LIGHTING SYSTEM**. You **CAN'T LOSE** with our **MONEY BACK** guarantee.

**TOLL FREE** Outside of California (800) 348-2321  
Within California call (408) 479-9981

Write **NOW** for a **FREE** catalog, and we will include a list of **FREE TECHNICAL PUBLICATIONS**. © Geotechnology 1988

Since 1976



Since 1976



Trust — Dependability — Service Since 1976



## A NEW CONCEPT IN PLANT CONTAINERS DOMESTIC Poly Gro-Bags

CAPACITY	Qty.	100	500	1000
1/2 gal.	0	\$ 18.00	\$ 75.00	\$125.00
2 gal.	0	25.00	90.00	150.00
3 1/2 gal.	0	34.95	149.95	265.00
6 gal.	0	39.95	179.95	295.00
12 gal.	9.00	69.00	295.00	540.00
15 gal.	12.00	89.00	395.00	699.00
30 gal.	21.95	169.00	745.00	Call for price

Sample package (1 each size) ..... \$8.00

## AUTOMATIC WATER MINDER II

- High Quality, Long Lasting
- Saves Time, Water, and money
- Insures Proper Amount of Water for a Perfect Lawn
- Many Uses
- 2 Year Guarantee
- 2 AA Batteries Last 1 Year



7 Day Programmable Water Minder Set it and forget it. Program a 7 day period of time, 2 programs a day, any day or combination of days of the week, any hour, day or night.

1	\$44.95 each
6 to 11	39.95 each
12 or more	34.95 each

## Go'pher It

Banish Burrowing Rodents From Your Garden...Forever!

Go'pher It is an electronic instrument that emits waves of vibrations and sound into the earth at 15 second intervals. Although Vibe-Sound is barely audible to humans, it convinces underground animals within a 50 ft. radius that there's an enemy invasion coming and sends them running for their lives! Guaranteed safe and effective for use around children and pets. Go'pher It's a natural deterrent to underground residents like gophers, moles, ground squirrels, shrews, pocket mice and voles. Use is simple. Just insert the 12 inch prong into the ground and switch on. Great for stabilizing those hard-to-reach hills...and won't bother the worms (they don't have ears).

1 to 5	\$49.95 each
6 to 11	44.95 each
12 or more	39.95 each

## Collapsible Water Tanks



275 Gallon Tank Shown (wt. 20 lbs.)

**HAUL AND STORE WATER QUICKLY.....EASILY.....ANYWHERE**

7 sizes.....275 to 1340 gallons  
FDA approved for drinking  
Will not tear, burst or rot

## ALL NEW 1988 Outdoor Indoor CATALOG

\$1.00 (\$2.00 Air Mail)  
(503) 592-3615

Includes: drip irrigation supplies...high pressure 12 volt and gas powered water pumps...professional soil and hydroponic test kits...laboratory pH-conductivity-CO<sub>2</sub> meters humidifiers and dehumidifiers...commercial mixer proportioners...plus many more hard to find items.  
**All Products Guaranteed**

Send To



Box 809 Dept. 6  
Cave Jct., OR 97523

All Prices Include Shipping  
Visa, Mastercard & COD Orders Welcome  
All Products Shipped in Nondescript Packages

## A POWERFUL DC PUMP for use ANYWHERE!

Simer 12 Volt DC • 23 GPM

**GEYSER BATTERY POWERED PUMP**



Completely Submersible-Will Pump Continuously in Water 1/2" or More Deep Operates on any automotive battery

Our Customers Say That We Have:  
**The Largest Selection**  
**The Quickest Service**  
**The Nicest Catalog**  
**The Best Prices**

**We Sell More Than Just:**

**Halides & Sodiums**  
**Natural & Commercial:**

Pest Controls, Fertilizers  
 Growing Mediums

**Climate Controls:**

Thermostats, Rheostats  
 Fans & Blowers  
 Watering Systems  
 CO<sub>2</sub> Systems



...over 30 pages of values!

**High Light Enterprises**  
**Call For Order or Free Catalog**



**1-800-342-1981**

Eugene, Oregon (503) 342-1981

10 a.m. - 6 p.m. PDT



# LETTERS

continued from page 28

## MORE ALTERED STATES

In regard to Mayhem's "Altered States" letter (October '87), there are certain vitamins that will move you up and down while tripping. Anyone who takes LSD should have vitamin C (ascorbic acid) and Niacin (a member of the vitamin B family). Vitamin C plays two important roles when used for LSD. First, vitamin C is found in the adrenal gland and helps produce adrenaline. This accounts for its "boosting" effect with LSD. Second, vitamin C works in the liver to help detoxify foreign substances, such as strychnine. This explains why one does not feel run down after a trip. Niacin (aka nicotonic acid) is important for terminating trips, especially bad ones. Niacin is used to decrease confusion, perceptual changes, and anxiety. It is a standard treatment for schizophrenia. It should be taken in doses of .5g and increased as needed after a half-hour. Niacin also increases the effects of tranquilizers, i.e., 20 mg of Valium with niacin equals 50 mg of Valium alone.

—Sun Dog

Sarasota, Florida

## THRASH PLEASE

Loved Michael Weldon's article on splatter 'zines. Did you ever think about doing articles on hardcore and thrash bands and 'zines?

—Rodney

Carbondale, Illinois

## HELP!

Is there a publication called *Narcotics Agent* that lists the new 1988 drug laws for all 50 states?

—The Growers of Pennsylvania and New Jersey

**Send your gripes, questions, personal thoughts, and occasional compliments to: HIGH TIMES "Letters," 211 East 43rd Street, NYC 10017. Unless otherwise indicated, proper names are printed with initials only to protect the innocent, so sign your favorite pseudonym.**

## WHOLESALE LIGHT SUPPLIERS

**1-800-333-LITE "Don't Pay Retail"**

**BASIC KITS (NO REFLECTOR OR ENCLOSURE)**

1000 HALIDE (MS 1000)	\$150.00
400 HALIDE (MS 400)	\$105.00
1000 HIGH PRESSURE SODIUM (LL 1000)	\$195.00
400 HIGH PRESSURE SODIUM (LU 400)	\$165.00

**EXPANDED KITS (48" REFLECTOR AND STEEL ENCLOSURE)**

1000 HALIDE (MS 1000)	\$175.00
400 HALIDE (MS 400)	\$130.00
1000 HIGH PRESSURE SODIUM (LU 1000)	\$225.00
400 HIGH PRESSURE SODIUM (LU 400)	\$190.00

C.O.D.s SHIPPED

DEALER INQUIRIES WELCOME

VISA AND MASTER CHARGE

CALL COLLECT FOR LIGHTS

CARBON DIOXIDE SYSTEMS COMPLETE

\$150.00

AIR PURIFIERS ELIMINATES SKUNK ODOR (150 cfm)

\$109.00

**BOX 3361, SPOKANE, WA 99220-3361**

Free Catalogue

100-\$6.00  
 1,000-\$20.00  
 200mg caffeine  
 GREEN, RED OR BLUE SPECK  
 PINK HEART  
 250mg Caffeine  
 BLACK CAPSULE  
 200mg Caffeine

**WE MEET OR BEAT ANY PRICE!**

**Free Catalogue and**  
**Inscent sample**  
**800-237-3759**

100-\$5.00  
 1,000-\$15.00  
 MINI PINK HEART  
 MINI WHITE THIN/THICK  
 ALSO YELLOW AND PURPLE  
 All with 25mg of Ephedrine  
 (DECONGESTANTS)  
 800 BEPERKY

**STIMULANTS — DIET AIDS**

100-\$6.00  
 1,000-\$26.00  
 MAGNUM  
 357mg Caffeine  
 325mg Caffeine  
 BLUE with BLUE SPECK  
 OR BLACK  
 325mg Caffeine  
 300mg Caffeine

100-\$7.00  
 RED AND CLEAR DIET AID  
 75mg PPA  
 STRONGEST AVAILABLE WITHOUT  
 PRESCRIPTION

QUANTITY DISCOUNTS AVAILABLE  
 Nationwide Purveyors, Inc.  
 P.O. Box 8482 Department H  
 Pittsburgh, PA 15220

More items available  
 100-\$8.00  
 1,000-\$35.00  
 SLEEP AID  
 50mg Diphenhydramine  
 DJIRO-HARD  
 YOHIMBE BARK COMPLEX  
 (TURN SEXUAL FRUSTRATION  
 INTO TOTAL FULLFILLMENT)  
 60-\$11.95

Master Card, Visa or Discover COD orders accepted



# NO SWEAT

continued from page 74

to neutral. When the pH varies from this range, some nutrients become unavailable to the plant, slowing growth or causing deficiencies. PH can be measured using inexpensive meters, using chemicals, or with pH paper. It can be adjusted using commercial pH adjusters (liquids) available at hi-tech growing stores.

## FERTILIZERS

Plants can adapt to a wide range of nutrient conditions. The main thing is that they get enough nutrients, but not so much that the concentration is toxic. Most hydroponic fertilizers formulated for vegetative growth will support active growth during the first part of the growing cycle. Start them off at 1/4 recommended strength and gradually build up to full strength by the end of 2 weeks.

## PLANTING

Choose seeds from a good quality sinsemilla type plant, buy seeds from Holland, or get cuttings from a grower who is doing well. Place a seed in each cube about 1/4 inch deep and turn on the lights. In a few days the seeds should germinate.

## MAINTENANCE

Once the seeds are planted, little remains to be done except for raising the lights every day or two. Fluorescents should be kept at about four to six inches from the plant tops, and HID lamps about 1-2 feet away. The lights should be kept on 24 hours a day until the plants are ready to flower. Although some people think the plants need rest periods, this is a myth which has been shown in controlled experiments.

The water should be changed every week to two weeks. When the water is changed, add new fertilizer. When water is added between waterings, it need not have nutrients, but should be pH adjusted, if need be. Once a month, clean out excess nutrients from the cubes or containers by rinsing them with clear water. Then add fertilized water to the plant holders.

## FLOWERING

When the plants are about one foot high, at about two weeks to one month of age, the light should be put on a timer so that it is off for 12 hours and on for 12 hours. This causes the plant to respond to "fall" and start producing flowers. The plant actually measures the dark cycle so it is important that the dark period not be interrupted by light.

Marijuana usually produces male and female flowers on separate plants. In order to produce sinsemilla (seedless female flowers) they must remain

continued on page 87

# The Motion of Light

continued from page 67

In English, the translator followed him. There was a very different feel to the Cuban's speech. It seemed far less peremptory. He spoke of U.S. atrocities committed regularly against his country. He spoke of his country's unsettled position, geographically close to one great power, ideologically closer to a more distant one, and the huge experience of risk this created across his island. He spoke of the pain and death of the 1961 Bay of Pigs invasion, to which the recent buildup of Soviet missiles in Cuba was (partially) a response.

The body of his speech over, he leaned back from the podium to take a breath—

And something happened I'll never forget.

CBS, the major television channel on which we were watching the U.N. coverage, again cut to a live news analyst, who began to explain that the Cuban ambassador had just said more or less what was to be expected, full of emotion, but without content.

Meanwhile, on Riverside Radio, the ambassador, after his breath, clearly had leaned forward again, to continue speaking. The translator ended his pause and continued translating. The actual speech came to a close perhaps half a dozen sentences on. Beyond what the TV audience heard, it ran on another—oh, a minute and a half—possibly two. Confused, though, I'd already gotten up and begun switching TV channels, to see if any of the TV stations were staying with the U.N.—as the FM radio behind me was. On channel after channel I stared at, and listened to, the same analyst, talking calmly, as if, indeed, the Cuban ambassador's speech had reached its conclusion just like the other two. All the networks shared the same picture.

Behind me, on the radio, the Cuban's speech actually ended—and I heard a sound.

It was applause—the applause of the Security Council and the whole audience. Neither of the two other ambassadors had received any such ovation. It was applause that rose, over the first two or three seconds, to a volume to equal that of the traffic on the industrial avenues in the city just before noon. The applause came on and on. There were shouts of approbation in it. I have been in theaters and know the difference between the sound of an ordinary ovation and the sound of a standing ovation. And I will tell you, though I did not see it, in the Security Council of the United Nations, as they applauded, people stood.

On TV, on all channels available, the analyst went on (do I add, in memory, a vague sense of flusteredness to his words, as if he had not been prepared to start as early as he had, and had been still making notes, considering what he was to say, when he'd been directed to go on—now?); but what had happened was that someone, sensing what the reaction to the speech would be, had decided that the American people should not see the Security Council audience go wild with support for Cuba, and so had made a decision, given a direction, and the Cuban ambassador's speech had been truncated before its end and the analyst had been purposely brought in to obliterate both the ending to the speech and the overwhelming reaction to it among the delegates from the rest of the world.

I suspect whoever did this still thinks of himself as a hero.

I suspect many who saw it or abetted it finally convinced themselves that it was, at best, an unimportant snafu, since the major information had, in fact, been given.

I suspect if it was ever questioned, excuses of time and programming were given, and, however absurd the excuses sounded, heads were shaken and the thing was more or less internalized, repressed, and forgotten.

But it remains one of the most direct and terrifying manipulations of the media I have ever seen. ●

# CLASSIFIEDS

## MISCELLANEOUS

### FOREIGN PASSPORTS

21 countries. Loopholes. "Back doors." Latest opportunities, possibilities. Free details EDEN PRESS Box 8410 PP, Fountain Valley, CA 92728

**SAY YES TO DRUGS!** Drugs as a spiritual path. \$5.00 Dawn Human, PO Box 19494-H, Portland, OR 97219.

**TRAIN ANY DOG** to find marijuana plants—little known techniques. Manual \$10.00 M.R.P.C. Box 217, Brookfield, Ill 60513

**LEARN YOUR FEDERAL AND** State rights in Administrative Hearings, Search and Seizure, Drug Testing, Court of Claims. Write Sullivan County Clinic, Box 190 Loch Sheldrake, NY 12759 (914) 434-6430.

**FACING A DRUG TEST?** Try SAFETEST, an organic herb to rid your system in 2 days. See p. 79 display ad.

**CENTURY PUBLISHING** PO Box 3239, Citrus Heights, CA 95611-3239. Discount Psychoactive Books—Free Catalog! Fast Service!

**UNUSUAL BOOKS** All types. Not found in libraries or bookstores! Catalog \$1.00. Alpha Publications, PO Box 92 H, Sharon Center OH 44274

**DRUG TESTS CAN BE BEAT!** Complete report tells how. Send \$9.95 to: Maryvale Products, 8726D, South Sepulveda, #C112, L.A., CA 90045

**PAYING CASH! BUYING** any coins, jewelry, everything gold or silver Ship insured for immediate cash payment. Your refusal privilege. Safe fast, confidential service. Liberty Jewelers, Box 1164, El Dorado, AR 71730.

**BUILD BETTER BONGS...** and shit! Information, SASE Oatmeal Publications, PO Box 834, Nashville, AR 71852.

**NEW HIGH! INEXPENSIVE,** legal, easily obtainable. Free Information PO Box 4673, Springfield, Mass. 01101

## MERCHANDISE

**IS IT TRUE YOU CAN BUY** Jeeps for \$44 through the U.S. government? Get the facts today! Call (312) 742-1142, ext. 4648

**UNDERGROUND** construction. Have equipment will travel. Completely concealed 16x32 self contained. Miller 2413 S. Eastern #238 Las Vegas, NV 89104.

**ELVIS THE KING OF ROCK** in' Roll. Standard 35mm color reprints from the original photo of Elvis in his younger years. Send \$5.00 cash each to: PO Box 1084 Murray, Ky 42071. Limited offer!

**RED FLY AGARIC** Mushrooms (Amanita muscaria var. flavivolvata) \$40.00 dried ounce, JLF, PO Box 184, Elizabethtown, IN 47232

**NECKLACE CRYSTALS** \$4.00; 1645 Corral Cyn, Malibu, CA 90265

**RADIO FREE OZ TAPES** from the Sixties. \$10 each. Evan Eyerick 2695 Victoria Dr., Laguna Beach, CA 92651

**CLEARANCE! STIMULANT** capsules \$9.50/1000. Minis on sale. Sex aids ADKO 919 854 7857, P.O. Box 7785 Greensboro NC 27417

**FOUR HYDROPOTS:** 400W & 1KW lights, CO<sub>2</sub> dispenser & tank; solar shuttle. Make offer. Negotiable (205) 883 9964

**TRIPPING POSTERS** Send \$2 for catalog: Psychedelic Solution, 33 W 8th St., 2nd Fl., New York, NY 10011

**FREE! LEBANESE LETTUCE.** "O", and superdot incense samples and catalog. Low-cost stimulants, etc. also available (812) 422 4859

**NEW SMOKER'S CATALOG** Pipes, waterpipes, much more! Send \$2 or 10 first-class postage stamps to: Tobacco World, P.O. Box 74946 Dept. H, Oklahoma City, OK 73147 U.S. funds only. 1-(800)-847-PIPE.

**COMPLETE COLLECTION** High Times #1 thru #148 \$1500.00\*offer. P.O. Box 1082 Spring Valley CA 92077-0120.

**UNDERGROUND BOOKS** Controversial and Unusual. Clandestine Laboratories—\$12. Catalog \$2. FSS, PO Box 232, Fair Oaks, CA 95628-0232

**HARDCORE VIDEOS** Amateur/European/Oriental/International/Lesbian/Hairy Girls/PG/GS/FF/BD—Custom Service—More! Shocking! Kinky! Bizarre! Unobtainable Elsewhere! Graphic Lists/Descriptions—S.A.S.E., \$2.00 (refundable); AMATEX, PO Box 8020, Youngstown, OH 44505

**LEROCK ROOM ODORIZER.** \$10.00/gram, \$95.00/oz. Knight P.O. Box 1101 Evansville, IN 47706

## GROWING AIDS

**MUSHROOM SPORE** Prints. Many exotic species. Spore Catalog \$5. Amanita muscaria spores \$10. FS, PO Box 420435, Sacramento, CA 95842-0435.

**FISH EMULSION** Increase vegetative yield 100% One quart \$8. Delivered volume discount. Penobscot Organic. 43R Green St., Jamaica Plain, MA 02130

**SPIDER MITE PREDATORS—** \$35/1000, Whitefly Parasites - \$27.50/1000, Ladybugs—\$5.50/1000, postpaid, fast delivery CODs, credit cards. Free brochure. Nature's Control, PO Box 35, Medford, OR 97501, (503) 899-8318.

**LIGHTS, ROCKWOOL, PRE-** dators mites, and more. Retail and mail order sales. Authorized retail centers for Applied Hydroponics' products. Call 1-(800)-444-2837 for free brochure.

**EAST COAST HYDROPONICS** now open! Lights and organic gardening supplies for all your growing needs. Come see our new showroom or write for a free catalog. 432 Castleton Ave., S.I., NY 10301. Or call East Coast Hydroponics Nationwide: 1-(800)-255-0121 • NY (718) 727 9300.

**EARTHWORMCASTING** 10 lbs. \$9.95 postage paid. Cape Cod Worm Farm, 30 Center Ave., Buzzards Bay, MA 02532. (617) 759-5664

**INDOOR GROWING** supplies, grow lights, hydroponics, all you need; best quality, lowest prices. For mail order, Hamilton Technology 1-(800) 458-7474 or (213) 217-0036. For L.A./Orange County Walk-Ins: Hamilton Technology Showroom, 14902 S. Figueroa St., Gardena, CA (213) 217-0036 (just off the 405, 91 and 110 Freeways). For Georgia Walk-Ins: Hy-Dro-Gro Mini-Farms: Route 1, Cataula, Georgia (2 miles No. of Columbus on Hamilton Road)

**GROW WITH Ebb-n-Flow!** Flow magic Ebb-n-Flow systems are the most productive systems on the market. Dealers welcome. Write or call Northern Hydroponics, P.O. Box 873789, Wasilla, AR 99687 3789 1-800-327-0318

**NOW OPEN, CAROLINA** Hydroponics. Modular hydroponic systems, HID lighting, supplies. Call or write for free catalog. P.O. Box 638 Goose Creek, S.C. 29445 (803) 553-4950

**GROW MODULAR** 3 sizes, plans \$10.00. kit \$150.00. ADI Box 1119, Westport, NY 12993 518 962-8223

**HAWAIIAN DELIGHTS** Baby or regular Hawaiian Wood Rose Seeds, a sample \$20 or \$75/oz., one Hawaiian Panaeolus Cyanescens spore print for \$15: Betel Nuts \$10; Kava Kava \$20/oz. or \$75/¼-lb., Imported Poppy Seeds \$10 or \$60/¼-lb. Allow 6-8 weeks for delivery. Island Spore Co., PO Box 8055 Honolulu, Hawaii 96830

**PARADISE HYDROPONICS** introduces the hottest "how-to" video on the market. This easy-to-follow, step-by-step instruction tape will show you how to set up your indoor garden in anything from a closet to a warehouse. Let the boys show you how! Available from Paradise Hydroponics, 306 West Harris St. Eureka, CA 95501. Call toll free: 1-(800)-332-GROW, in California call: (707) 445-5720

**MUSHROOM RESOURCE** Guide: \$14. Information \$2. FUNGI SUPPLIES, PO Box 1374, C.H., CA 95611 1374

## NOVELTIES

**HUMBOLDT SEED** \$1.00 each seed. Purple Skunk H.C.W.C., PO Box 386, Garberville, CA 95440.

**NORTHERN CALIFORNIA** Seed: Indica, Afghani, Sativa, \$1.00 each seed, PO Box 114, Phillipsville, CA 95559

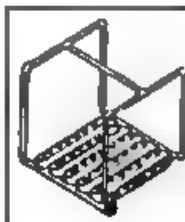
**EMERALD TRIANGLE SEEDS** Hawaiian and Asian \$1.00 each seed. E.T.S. Box 352, Muranda, CA 95553.

## BEHIND BARS

**MATURE (29), LONELY** incarcerated male is seeking correspondence with woman on the outside who's looking for no games or head trips. I have no family or friends on the outside and would appreciate hearing from you. Please write Terry Hardaway P.O. Box 607, Carson City Nev 89701


**ATTENTION LADIES** 27, blonde & blue. California true. 6-4" & a solid 210. Looking for a bright lady to correspond for friendship & possible relationship. Doing a speck of time, be out soon! Pictures will receive one in return. Mr. Jeff McClain, C74670-4173 C-M-C East P.O. Box 8101, San Luis Obispo, CA 93409 0001

**LONELY MAN IN PRISON** Single male, 28, seeking correspondence with someone sincere. Will reply to all letters. Arthur J Bomar P.O. Box 607 #14479, Carson City, Nevada 89701




**GROW MODULARS**  
3 31289, 4, 5, 2, 3, 4, 5, 4, 5  
PLANS \$10  
KIT FROM \$150  
518-962-8223  
ADI

**PIGGY MALONE'S®**



**NOMAD® Catalog of smoking accessories, gifts, etc. Send \$1 postage & handling refundable with first order to:**  
P.O. Box 10073  
Berkeley, CA 94709

**ROCKWOOL**



**THE GROWING MEDIUM**  
FOR A DESCRIPTIVE BROCHURE ON OUR COMPLETE LINE OF GARDEN SUPPLIES WRITE OR CALL:

**FULL CIRCLE**  
P.O. BOX 6-HB  
REDWAY CA 95560  
(800) 426-5511

**BAT AGIC**

**REAL TENNESSEE BAT GUANO**  
• High Volume High Quality Crop Yields  
• Amazing Specialty Plant Food  
• Potassium Nitrate Added  
• Money Back Guarantee  
• Limited Supply

**SEND CHECK OR M.O. FOR**

2 1/2 lbs.	\$1.00	5 lbs.	\$1.75
10 lbs.	\$6.50	25 lbs.	\$16.50

**BAT MAGIC CORP.**  
Box 1  
1985 S. 1st St.  
Bat, TN 37013

(IMPORTED)

**YHUBA GOLD!**

**GET AS HIGH AS YOU'VE EVER BEEN!! GUARANTEED**

**SIMILAR TO MARIJUANA**

**SATISFACTION GUARANTEED**

ORDER NOW! Must Be Over 18  
\$15.00 PER OZ. to R. Hillard  
6475 Pacific Coast Highway #219  
Long Beach, Ca. 90803

**COLORFUL DYES**

**MAKE YOUR OWN TIE-DYES**

- Complete instructions
- 70 easy to use colors
- Vibrant, permanent, Procion® cold water dyes

Call **BROOKS & FLYNN** for Free Catalog and Color Chart, 1 (800) 822-2372 in CA 1 (800) 345-2026 or write **BROOKS & FLYNN Inc.** Box 2639, Dept. HT, Rohnert Park, CA 94927-2639

**M A H**

**Indoor Garden For All You Grow**

**DIAMOND LITES**  
EAST COAST HALIDE & HYDROPONIC DISTRIBUTOR  
151 ALKIER ST BRENTWOOD  
NY 11717 (516) 231-9472

**VISIT OUR SHOWROOM**  
M-F 12-6:30  
S 10-6:30

**B COMPLEX VITAMINS**

1/2 OZ \$15- \$8.95  
2 OZ \$48- \$24.95

**MANY OTHER SIZES & ITEMS**  
PREPAYMENT = FREE FREIGHT  
MONEY ORDER SHIP SAME DAY  
CODS ADD \$2.00

**NATURE SCIENCE**  
P.O. BOX 65  
WOODLAND HILLS, CA 91364  
(818) 704-8811

**TROPICAL INK! PRODUCTS**  
P.O. BOX 9097 San. Fla. 32206

Now from TROPICAL INK! gasoline, airplane, tooth, backside

\$14.00-2.00 postage

chain colors  
silver tones  
gold tones  
DYE RAY

tooth colors  
gray  
pink  
white

**BLANK PHOTO ID CARDS**

Make laminated Photo IDs on any typewriter. All materials furnished for 5 Ds

Good in All States and Canada  
5 FREE BIRTH CERTIFICATES  
(800-224-1941) 1-800-224-1941

**5 FOR \$10**

**CARDINAL PUBLISHING, DEPT. B23**  
1851 Emporia, Box 2200 • Jacksonville, FL 32207

**FACING A DRUG TEST?**

Try SafeTest, an organic herb that's clinically proven to rid your system in 2 days of all prescription, marijuana, cocaine, & amphetamine drugs. Write to:

**Products by Mail**  
7111 W Indian School Rd.  
Suite 129, Phoenix, AZ 85033

**TRIACONOL**

New potent growth stimulant doubles yield. Lab data available. Nutrient solution or foliar spray. Indoors or out. Enough for 200 plants. \$10.50 to: Greenleaf, 515 S. Barstow No. 114, Eau Claire, WI 54701

**SIGN OF THE TIMES**

HANDPRINTED IN USA BY OLD HEMPEL ON PREMIUM QUALITY T-SHIRTS  
BRIGHT BLACK BLUE OR MAROON OR WHITE

\$8.95 - \$15.00

SEND CHECK OR MONEY ORDER TO:  
**PEACETIME ENT.**  
1711 21st Ave. So.  
Boulder, CO 80501

**BUDZ**

"Love that SKUNK!"  
Kew-Green, alk screened on an all cotton T, s-m l-xl

Order Now!  
Send \$14 cash or money order to:  
**ALLA N'S, Dept. HT 168**  
P.O. Box 809  
Mesquite, Texas 75149

**SECRET-NAME**

KEEP YOUR PERSONAL RECORDS WITHOUT WORRY OF DISCLOSURE ON OUR COMPUTER SOFTWARE THAT IS SPECIFICALLY DESIGNED FOR THE GROWER. SECRET PASSWORDS THAT YOU DETERMINE ASSURE ONLY YOU WILL KNOW HOW TO ACCESS YOUR INFORMATION.

**\*\*\* SAFE-FILE \*\*\* \$9.95**  
FIRST LEVEL PROGRAM DOES PRICE AND WEIGHT CALCULATIONS AND ALSO MAKES LABELS.  
SECOND LEVEL PROGRAM KEEPS YOUR PERSONAL GROWING RECORDS ON A DOUBLE ENTRY LEDGER. KNOW WHO, WHEN, WHAT TYPE, WEIGHT, PRICE, PAYMENT, BALANCE, ALL ON ONE SCREEN, AT YOUR FINGERTIPS.  
BOTH LEVELS PROTECTED WITH YOUR PASS WORDS. AND WILL SELF DESTRUCT UPON INTRUSION.

**\*\*\* YEARLY REPORTER \*\*\* \$9.95**  
A YEARLY GROW OBSERVATION PROGRAM FOR YEARLY COMPARISONS AND GRAPHING OF YEAR END RESULTS. ALSO USING OUR SECRET ENTRY TECHNIQUE.

**SECRET-NAME**  
2 P.O. BOX 771039 / NICHOLS, KS 67277  
316-943-8700

VISA AND MASTERCARD ACCEPTED  
CONFIDENTIALITY ASSURED

**GET CONTROL OF WHAT'S BUGGIN' YOU!**

**IF YOU HAVE SPIDER MITES, YOU HAVE A BIG PROBLEM!**

At last, an affordable solution to your problem has arrived. Olivia's amazingly effective new product, **THE TERMINATOR™**, will eliminate spider mites, aphids, gnats, leaf hoppers, as well as many other insects.

with 100% NATURAL Pyrethrins

Write or call us for a free brochure and more info on this field tested battery operated dispenser and 30 day canister. Guaranteed to kill those spider mites dead, dead dead!

**OLIVIA'S SOLUTIONS**  
8825 TELEGRAPH AVE #82  
OAKLAND, CA 94618 (415) 864-4000  
SOLUTIONS FOR ALL YOUR GROWING NEEDS

**The HIGH TIMES Classified Reaches Over 2 Million People Each Month. Whether Your Message is for Business or Pleasure, put it in HIGH TIMES for Maximum Results.**

**RATES**

One time ad \$5.00/word

**Discount for contracts:**  
Three consecutive ads \$4.75  
Six consecutive ads \$4.50  
Twelve consecutive ads \$4.25

**CLASSIFIED DISPLAY**

\$150 per column inch  
Column width is 1 5/8 inches.

**Discount for contracts:**  
Three consecutive ads \$140/inch  
Six consecutive ads \$130/inch  
Twelve consecutive ads \$120/inch

All display ads must be delivered camera ready

**TO ORDER:**

**MINIMUM AD IS TEN WORDS**  
Post Office Box #'s and telephone #'s count as two words each.  
All ads must be typewritten.  
ALL ADVERTISING MUST BE FULLY PAID IN ADVANCE WITH CHECK OR MONEY ORDER, NO CASH.  
Ad will appear 60 to 90 days after receipt.  
All ads are accepted at the discretion of the Publisher.  
No advertisements for chemicals, chemical supply houses, formulas, extraction methods or synthetics reports will be accepted.  
Call for Advertising Acceptability Policy (212) 972-8484  
Mail to: HIGH TIMES Classified  
211 E. 43rd Street, New York, NY 10017  
Please include a sample of your product or catalog with your ad, and your street address and phone number.

1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	24
25	26	27
28	29	30
31	32	33
34	35	36
37	38	39

Cost of Ad \_\_\_\_\_ words at \_\_\_\_\_ per word = \_\_\_\_\_ Total.

Payment must be enclosed with order.  
(Check or money order only, please.)

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_



# the HIGH TIMES bookstore

## MAGIC MUSHROOM HANDBOOK

by Gary P. Menser

A pocket guide to collection, identification, and preparation of magic and poisonous mushrooms. Comes complete with glossary, extensive bibliography for further research, and color pix. HTB/10 \$9.95



compiled by Murphy Stevens

Simple directions and accompanying photographs make this book informative and easy to follow. Learn the best methods of growing marijuana indoors with lights. HTB/40 \$5.95



by Jim Richardson

A photographic tour de force of the virgin pot plants, with instructions on how to grow your own. HTB/1 \$19.95



by Paul Starnets

Literally everything you ever want to know about hallucinogenic mushrooms can be found within this book. Complete with dozens of color photographs, diagrams, and glossary, it will prove an invaluable addition to your psychedelic library. HTB/16 \$12.95



## INDOOR/OUTDOOR

### MARIJUANA GROWER'S GUIDE

by Mel Frank and Ed Rosenthal

The classic introductory work on cultivation. HTB/4 \$5.95



## MARIJUANA:

### THE CULTIVATOR

by Bill Drake

The most up-to-date information for the outdoor and indoor marijuana cultivator, with over 100 photographs, drawings, charts, maps and a special section on psychoactive tobacco. HTB/25 \$14.95



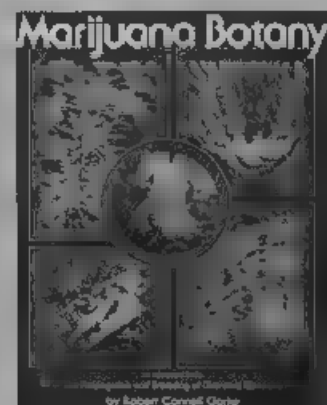
by M. Stevens

Grow marijuana all year long under lights with the help of this photo-filled book. Simple instruction, from germinating seeds to the proper lighting, help the home grower have a successful crop. HTB/41 \$7.95



by Robert Connell Clarke

Contains the newest data on all phases of cannabis cultivation. How quality is affected by climate, identifying male plants, harvesting, THC production and potency. HTB/46 \$14.95



## THE SINSEMILLA TECHNIQUE

by Kayo

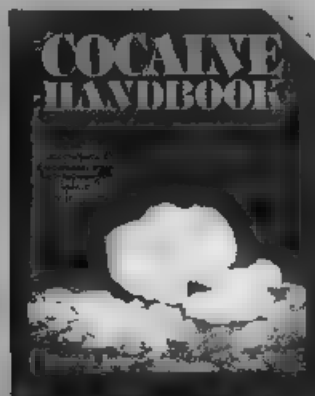
Written for the curious as well as the experienced, this technique tells how fewer plants in smaller pots can yield more cannabis of higher quality. The book includes photographs and illustrations. HTB/30 \$14.95



## COCAINE HANDBOOK

by David Lee

An updated edition of a classic reference, written in the spirit of consumer protection, includes sections on applicable laws, where to go for help with abuse problems, and the straight dope on health hazards, adulterants, and garbage freebase ("crack"). Fully illustrated. HTB/31 \$24.95



by Murphy Stevens

This book on growing marijuana indoors brings new information on pruning, curing and drying, as well as equipment, lights, and fertilizers for a more satisfactory homegrown crop. HTB/39 \$9.95

as told to Ed Rosenthal by U.S.

This book tells you how to grow your own delicious HI-B... Simple easy-to-follow instructions help you turn, shake and lower leaves into refreshing high-potency suds. HTB/49 \$9.95

## HOW TO GROW HERBS

HYDROPONICALLY

compiled by Patrick Daniels

All the information you need to grow your favorite plants in a fraction of the time it takes with conventional methods. HTB/45 \$7.95

## HORTICULTURE

by High Times' indoor expert

Jorge Cervantes

The book all indoor growers must have. It is the most complete, authoritative, up-to-date book on indoor marijuana cultivation ever! This 288-page edition is well illustrated with over 250 photographs, drawings and graphs. It is packed full of information on grow rooms, grow lamps, electricity, container gardening, water, fertilizer, hydroponics, air, CO<sub>2</sub>, bugs, fungi, cloning, harvesting, breeding and it has a garden calendar, index, glossary and directory of indoor garden suppliers! HTB/42 \$16.95

by G. Anthony Burgess

A basic primer on under-the-roof since cultivation, covering everything from seed selection, choice of grow media, equipment advice, plant care and preparation, and harvesting procedures. Illustrated with photos (color and B&W) and drawings. HTB/48 \$9.95

by D. Gold

Turn that moldy old ditchweed into some hi-test by simply following the method outlined in this book. Written specifically for the layman, with diagrams. HTB/13 \$5.95

by Antonil

A well documented presentation of how wholesale dope movers and narcotics officials actively collaborate in the international drug trade. HTB/21 \$8.95

## AND BETTER HYDROPONIC GARDEN

by Ed Sherman

How to make a super-garden that will grow anything, anywhere, from scrap materials. HTB/27 \$5.95

by Adam Gottlieb

More than just another collection of marijuana recipes, this book teaches the reader the nature of cannabis, how it combines with other foods and how it is best assimilated by the digestive tract. A must for anyone serious about cooking with grass. HTB/14 \$4.95

by George Lassen

Succinct, highly readable and well-illustrated. A good beginner's guide to outdoor cultivation with chapters on site selection, camouflage, sexing, predators and drying, among others. HTB/50 \$14.95

## HYDRO-STORY

by Charles E. Sherman and Hap Brenizer

How to grow the easy way, get big yields from little gardens in your backyard, patio, apartment, etc. HTB/36 \$7.95

## SNOW BLIND

by Robert Sabag

An all-out, nonstop, mind-bolting journey through the dazzling high-altitude world of an international cocaine smuggler. HTB/18

by Paul Stamets and J.S. Chilton

The definitive reference for the home mycophagist. Profusely illustrated with charts, photos (many in color), and easy-to-follow instructions. HTB/37 \$24.95

## CALL TOLL FREE FOR ORDERS ONLY

800-435-0715

In Ill. 800-892-0753



☐ Payment enclosed

☐ MasterCard ☐ Visa

Please send me the books I have indicated below: Card # \_\_\_\_\_

BOOK#	Expiration date	QUANTITY	x	PRICE	=	COST
HTB/1	Signature _____			\$19.95		
HTB/4				\$ 6.95		
HTB/10				\$ 9.95		
HTB/13				\$ 5.95		SOLD OUT
HTB/14				\$ 4.95		
HTB/16				\$12.95		
HTB/18				\$ 3.95		
HTB/19				\$11.95		
HTB/21				\$ 8.95		
HTB/25				\$14.95		
HTB/27				\$ 5.95		
HTB/30				\$14.95		
HTB/31				\$24.95		
HTB/36				\$ 7.95		
HTB/37				\$24.95		
HTB/39				\$ 9.95		
HTB/40				\$ 5.95		
HTB/41				\$ 7.95		
HTB/42				\$16.95		
HTB/45				\$ 7.95		
HTB/46				\$14.95		
HTB/48				\$ 9.95		
HTB/49				\$ 9.95		SOLD OUT
HTB/50				\$14.95		
				Subtotal \$		
				Sales tax NYS residents \$		
				Add \$1.75 shipping for each book \$		
				Grand Total \$		

HTB \_\_\_\_\_ HTB \_\_\_\_\_ HTB \_\_\_\_\_ HTB \_\_\_\_\_ HTB \_\_\_\_\_

New York residents please add applicable sales tax. Alaska, Hawaii, Canada & Foreign add \$2.50 per book for postage and handling.

Make check or money order payable to H. T. Bookstore. Mail to: HIGHTIMES Books, P.O. Box 410, Mt Morris, IL 60054. Please allow 6-8 weeks for processing and delivery.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_ ZIP \_\_\_\_\_

# PSYCHOACTIVE Books-by-Phone

UPS-COD VISA/MC Call 24hrs/day

We specialize in books, offer largest selection and best service.

STEAL THIS URINE TEST how to beat drug tests	5.95
PSYCHEDELIC CHEMISTRY authoritative	14.95
DESIGNER DRUGS ecstasy, crack, china white, etc	7.95
INDOOR MARIJ. HORTICULTURE Indr high tech	16.95
MUSHROOM CULTIVATION best 'shroom guide	24.95
MARIJ. HYDROPONICS high tech water culture	14.95
ANARCHIST COOKBOOK chemistry, security	14.95
PAPER TRIP how to set up new identity	15.95
SEX, DRUGS, AND AIDS guide to prevention	4.95
SECRET GARDEN MARIJ. useful new info	12.95
CULTIVATING MARIJ. HSBK, revised classic	14.95
DELICIOUS MARIJ. GROW UP the best grow book	19.95
SPIRAL DLX MARIJ. GROW GD. lays flat & lasts	24.95
MARIJUANA BOTANY definitive guide to m'j plant	14.95
SINSEMILLA TECHNIQUE new printing	14.95
MARIJUANA ALERT dangers of smoking pot	10.95
PEOPLES PHARMACY guide to medical drugs	5.95
MARIJUANA MEDICINE VIDEO vhs grow class	39.95
MARIJ. GROWERS Hbk Indr grms adn / Rosenthal	16.95
ED ROSENTHAL'S MARIJ. GROWING TIPS fun book	12.95
MARIJ. QUESTION? ASKED place, q&as, advice	16.95
THE MARIJUANA QUESTION hazards of pot	24.95
MOKSHA psychedelic writing of A. Hurley	7.95
SHAMAN WOMAN woman writing on drugs	12.95
DRUG ANTIQUES guide to drug collectibles	12.95
INDOOR/OUTDOOR MARIJ. GROWERS GD Intro bk	5.95
MARIJUANA GROWER'S GD. audio cassette tape	7.95
MARIJUANA POTENCY up potency hashmaking	14.95
SINSEMILLA marijuana flowers, best color photos	19.95
MARIJUANA BEER how HIBrew it made	9.95
MARIJUANA AS MEDICINE medical use of pot	9.95
CANNABIS ALCHEMY incense, hash oil	5.95
SEX DRUGS & APHRODISIACS sexual highs	4.95
FROM CHOCOLATE TO MORPHINE A. Weil	8.95
LSD MY PROBLEM CHILD by A. Hoffman	7.95
MAGIC MUSHROOM HSBK pocket field guide	9.95
PSYLOCYBE MUSHROOMS & their allies	12.95
COCAINE HANDBOOK best essential reference	24.95
COCAINE PAPERS by Sigmund Freud	8.95
COCAINE CONSUMER HANDBOOK testing	9.95
800-COCAINE professionals help users quit	4.95
COCAINE CONSUMER Cassette tape of classic bk	7.95
PLEASURES OF COCAINE bk may save your life	5.95
WEED adventures of a dope smuggler, Mexico	9.95
THE WAY OF HERBS wonderful guide to healing	12.95
UNDERGROUND COMIX History w/ 1000-Hitman	17.95

select books above and write book price **SUBTOTALS**  
**PRICE** Continental USA shipping **ON ORDERS OVER \$35.00**  
 otherwise add shipping \$3.00 per book for USA, Canada  
 Foreign postage add \$5/bk California add 7% sales tax  
 PLUS \$4.00 fee \$2.00 card fee \$2.00 box fee  
 ONE or TWO for Books plus fees **TOTALS**  
 Make checks payable to Books-by-Phone (personal checks held  
 to clear, for best service send Money Order).  
 credit card MC Visa Exp date

card #:

Name:

Address:

City: State: ZIP:

I am over 21 (sign)

Price and availability subject to change without notice  
 Drug education books are for sale to ADULTS ONLY to  
 provide information in accord with 1st Amendment.  
 Offer void where prohibited by law. No warranties are  
 made, use is not advocated. Consult your physician.

**CALL NOW Day or Night**  
 operators take orders only, have no info  
 800/858-2665 National  
 800/992-2665 California  
 415/548-2124 Information  
 or write: BOOKS-by-PHONE  
 POBox 522 Berkeley, CA 94701  
**FREE CATALOG**

## NEXT MONTH



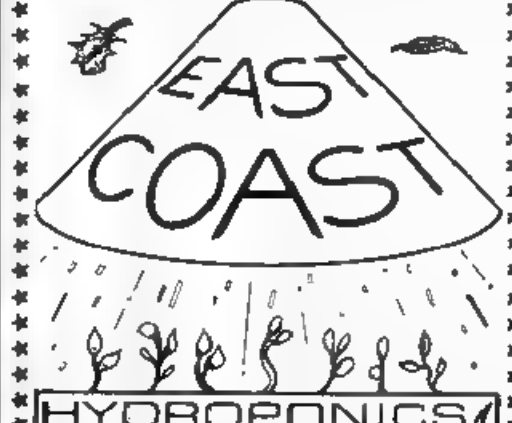
**The Flying Founding  
Fathers by Peter  
Gorman.**

**Did Washington,  
Jefferson, and Franklin  
smoke pot? Was  
cannabis the most  
important crop of the  
early 1800s? Is the  
Constitution printed on  
hemp? The answer to  
these and other  
questions in July.**

**PLUS**

**HIGH TIMES at the Hash  
Bash in Ann Arbor.  
Maybe you spent your  
spring break lounging in  
the sun in Ft. Lauderdale,  
but committed radicals  
that we are, we  
attended the annual  
Hash Bash in  
Michigan.**

## INDOOR / OUTDOOR GROWING SUPPLIES



**MAXIMUM LIGHT** Our own horizontal  
Maximum Light. The  
most efficient  
safest light  
on the  
market today.  
Also stocking U.L.  
Listed Professional  
Greenhouse Lights

**DIAMOND**  
Vertical Lights  
1000 w Super Metal Halide \$199  
1000 w H.P. Sodium • Organic Fertilizer  
400w Halide & H.P. Sodium • PH Meters  
Hydroponic Systems • Books • Containers  
**ORGANIC BAT GUANO** • Grow Bags  
Light Movers • Drip Watering • Soilless Mixes  
ECO & DYNA Grow • Pumps • White Plastic  
CO2 SYSTEMS • **WORM CASTINGS**  
Negative Ion Generators • Reflective Mylar  
Exhaust Fans • Air Filters • Water Bug!

**ALASKA MOR BLOOM** A SALE?  
FISH EMULSION - 32 oz. \$3.00 NO....  
HIGH NITROGEN BAT GUANO per lb. \$3.90 REGULAR  
25 lb. BAG \$40.00  
HIGH PHOSPHOROUS per lb. \$4.50 25 lb. BAG \$50.00  
ROCKWOOL IP-15-75 GROW SLAB \$5.25  
ROCKWOOL DM-4-6 CUBES \$2.30  
HIGH PHOSPHOROUS SEABIRD GUANO  
1 lb. \$4.50 2 lbs. \$8.00  
PH & DIST PENS \$55.00 ea. WISS SNIPS \$10.00  
140 CFM EXHAUST FANS \$45.00

**CALL FOR CATALOGS**  
**N.Y. (718) 727-9300**  
**USA (800) 255-0121**  
**EAST COAST HYDROPONICS**  
 432 Castleton Avenue  
 Staten Island, New York 10301





# Grow Wild Mushrooms Forever With The **HOMESTEAD** Mushroomkit

**A** decade ago, the Homestead Book Company introduced the first **Psilocybe Cubensis** Mushroomkit. Since then thousands of people have learned the joys of cultivating your own mushrooms.

Each Homestead Mushroomkit includes a life time supply of fertile spores and two pounds of our rich high-yield compost. You also receive supplies, reusable tools, and ten pages of instructions from Bob Harris' book **Growing Wild Mushrooms**.



TOLL-FREE ORDER LINE  
800-426-6777 CREDIT CARDS  
ONLY. (except WA, AK, and HI).  
All others please call  
(206) 782-4532.

**HOMESTEAD BOOK  
COMPANY**  
Serving You Since 1972.

**THE MUSHROOM CULTIVATOR**  
by Stamets and Chilton. A virtual  
encyclopedia for serious  
mushroom growers, with over  
400 pages of detailed  
information and photos.



- ☐ Deluxe **Psilocybe Cubensis**  
Mushroomkit .....\$50
- ☐ Spore Print...  
millions more .....\$25
- ☐ **THE MUSHROOM CULTIVATOR**  
—Highly recommended .....\$25
- ☐ **GROWING WILD MUSHROOMS**  
...Simple guide .....\$9
- ☐ **MAGIC MUSHROOM HANDBOOK**  
...field guide .....\$11

Total Enclosed \_\_\_\_\_  
VISA \_\_\_\_\_ MC \_\_\_\_\_ Expires \_\_\_\_\_  
Card Number \_\_\_\_\_  
Signature \_\_\_\_\_

Name \_\_\_\_\_  
Address \_\_\_\_\_

Washington residents add sales tax. For-  
eign add 20% US Funds. Money Orders  
processed fastest. Sold in fine stores, too.

**HOMESTEAD**

P.O. Box 31608 Seattle, Wa. 98103

(206) 782-4532

Dealer Inquiries Welcome

# STIMULANTS!



**CALL TOLL FREE: 1-800-221-1833**

## 3-Easy Ways to Order:

- 1. Charge It — Use** Visa or MasterCard.
- 2. C.O.D. — We ship today and you pay on delivery.**
- 3. Send Payment in Full — Add \$3.50 for Shipping and Handling.**

(N.J. Residents add 6% Sales Tax - No Personal Checks, Please)

**D&E PHARMACEUTICALS, INC. 206 Macopin Road, Bloomingdale, N.J. 07403**

**IN NEW JERSEY CALL (201) 838-5254**

**SAVE!** -Order any 10 Bottles of 100 Tablets or Capsules of stimulants for only **\$45.00**

### EXTRA DISCOUNT!

**10% Off** all orders for **On-The-Go** Natural Stimulant Tablets

# Switching to High Pressure Sodium has never been easier. Or cheaper.

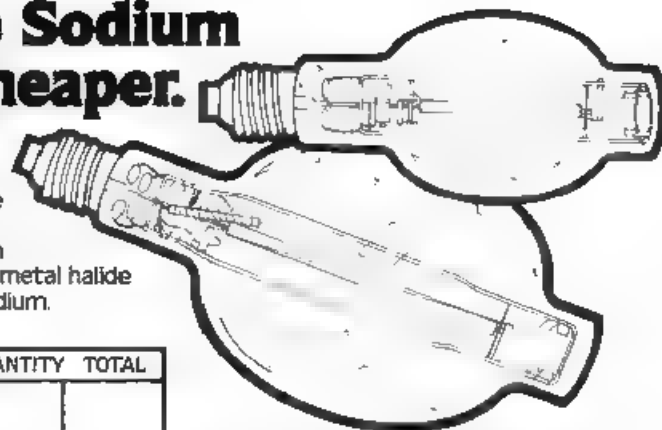
You asked for it. You got it. Energy Savers is pleased to announce high pressure sodium bulbs specifically designed for metal halide lighting systems.




## Easier.

When your plants are ready to bud and flower, simply change the light bulb.

## Cheaper.

Now, you don't have to invest in a whole new lighting system just to switch from metal halide to high pressure sodium.



			LUMENS	PRICE	QUANTITY	TOTAL		
	1000 WATT CONVERSION BULB	USES ONLY 940 WATTS— HAS ONE YEAR WARRANTY	140,000	\$139.00				
	400 WATT CONVERSION BULB	USES ONLY 360 WATTS— HAS ONE YEAR WARRANTY	50,000	\$69.00				
	GIANT 1500 PAGE CATALOG FEATURING BLOWERS, FANS, PUMPS, MOTORS AND 15,000 OTHER ITEMS			\$ 5.00 <small>(Refunded with first purchase from catalog.)</small>				
							SUBTOTAL	
							CA RESIDENTS ADD 6.5% TAX	
							C.O.D. CHARGE (\$2.00)	
							SHIPPING AND HANDLING	\$3.00

See our other fine products on the inside front cover ad.

CALL TOLL FREE (800) 421-2994 OUTSIDE CALIF.  
OR MAIL IN (800) 538-3400 INSIDE CALIF.  
YOUR ORDER

NAME

ADDRESS

CITY STATE ZIP

DAYTIME PHONE

ACCOUNT NUMBER

INTERBANK NO

MASTERCARD ONLY (THE NUMBER OVER YOUR NAME)

EXP DATE MO. YR

SIGNATURE FOR CHARGE ORDERS

The latest technology has created a unique, energy-saving sodium bulb that runs off of your existing metal halide ballast. Using less electricity and having a life expectancy of 24,000 hours, you can realize enough savings in energy, in just one year, to virtually pay for the bulb itself.

Order your own high pressure sodium bulb for your existing metal halide system today. And make the switch to sodium lighting without making the investment. Works with mercury vapor ballasts, too!



**ENERGY SAVERS UNLIMITED, INC.**



22138 S. VERMONT AVE. #C  
TORRANCE, CALIFORNIA 90502

## Essential Information from QUICK BOOKS



**MARIJUANA GROWER'S HANDBOOK** Revised Indoor Greenhouse Edition. Spiral Bound. Ed Rosenthal

The best book on indoor growing for both the novice and advanced grower. Tells you everything you need to know to set up and grow a primo garden. Detailed chapters on growing methods, hydroponics, watering, manicuring, sexing, lights, nutrients, cloning

and much more. The new Advanced Flowering section details info on regulating flower cycles for all varieties. Has maps, charts, graphs, many photos and illustrations. Index, catalog and bibliography. 252 pages. \$19.95



**MARIJUANA QUESTION? Ask Ed.** Spiral Edition. Ed Rosenthal

Is a compilation of several years of questions and answers regarding marijuana cultivation, culled from Ed Rosenthal's popular, long-running "Ask Ed" column in High Times. Each answer by Ed has been revised and updated in 1986 to include the latest available horticultural information on the topic. Chatty, witty, eminently

readable, each question and answer has been thoroughly indexed for use as a comprehensive reference work for victory gardeners. Chapters are included on cultivation practices, varieties, genetics, cutting, pests, curing, smoking, eating and the legal aspects of marijuana cultivation. Thirteen chapters with over 80 photos, diagrams, charts and index. \$19.95

Wagner's Marijuana



**MARIJUANA HYDROPONICS HIGH-TECH WATER CULTURE** Daniel Storm

New From Quick—A large format book describing how to set up and maintain a water culture marijuana garden. Describes how-to-do-it step by step. Chapters on every aspect of growth.

Lots of photos, charts and illustrations. 115 pages. \$14.95



**MARIJUANA GROWING TIPS**

Specific growing information for indoor and outdoor gardeners (chapters on soils, lights, CO<sub>2</sub>, cuttings, choosing seeds). Also describes cultivation and curing techniques practiced all over the world, including Morocco and India. Contains the most complete interview ever given by Dr. Carlton Turner who ran the government-sponsored pot farm at the University of Mississippi. This interview contains important information about cultivation, THC chemistry, and government policies regarding marijuana. 225 pages, photos and illustrations. Spiral bound. \$15.95



**CULTIVATOR'S HANDBOOK OF MARIJUANA REVISED EDITION** B. Drake

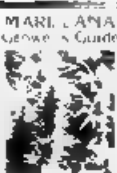
Drake's classic bestselling Cultivator's handbook is totally revised and expanded. It contains the most up-to-date information on the art and process of growing the finest marijuana for both the outdoor and indoor cultivator.

233 pages with over 100 photographs. \$14.95



**MARIJUANA BOTANY** R. C. Clarke

Marijuana Botany has detailed chapters on marijuana life-cycle, propagation, genetics and breeding, maturation and harvesting. In addition it has detailed appendices on environment and potency, sex determination, cannabinoid biosynthesis, and growth and flowering. Clarke uses information from government researchers and master California growers. 220 pages, profusely illustrated. \$14.95



**MARIJUANA GROWER'S GUIDE DELUXE EDITION** Spru Boud

Marijuana Grower's Guide by Mel Frank and Ed Rosenthal is the grower's bible. This is the basic book from which all other texts take off, and is written for either the smallest or largest scale growers. Sections on indoor and outdoor cultivation, breeding, grafting, sinsemilla, drying, curing, cannabis botany and chemistry.

Tells you everything you need to know to grow crop after crop of the best indoors or out. 350 pages, with dramatic 16 page color section and over 150 black and white photos. Discloses secrets of master grass farmers. \$19.95



**Quick Trading Co.**

P.O. BOX 477 SAN FRANCISCO, CA 94101

Write order on separate sheet

Name \_\_\_\_\_ (please print)

Street \_\_\_\_\_ (no P.O. boxes for UPS)

City State Zip \_\_\_\_\_

I am enclosing ☐ Check ☐ Money Order for \$\_\_\_\_\_

☐ Bill my MasterCard / Visa

Card # \_\_\_\_\_

Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

Add \$4 postage and handling per order. Books are shipped UPS to street address only. To ship via First Class Mail to a P.O. Box, send a total of \$6 for postage and handling. European orders add a total of \$10 per order postage and handling. All foreign orders must be in U.S. dollars. CA residents add 6% sales tax. For fastest service use a credit card or money order. Personal checks are held 2 weeks. ALL PRODUCTS ARE SENT TO YOU IN A PLAIN BROWN PACKAGE. OUR MAILING LIST IS COMPLETELY CONFIDENTIAL. WE DO NOT SELL OUR MAILING LIST. Send orders to Quick Trading Co., P.O. Box 477 San Francisco, CA 94101. Send \$1 for complete product catalog which is returned on first order.

TO CHARGE BY PHONE  
CALL TOLL FREE NATIONWIDE  
California call 1-800-428-7824 ext. 102  
Non-California call 1-800-428-7825 ext. 102  
\$20 phone minimum  
Visa and Mastercard Only



# 35mm Color Prints and Slides from the same roll



Seattle FilmWorks has adapted Kodak's professional Motion Picture film for use in your 35mm camera. Now you can use the same film—with the same microfine grain and rich color saturation—Hollywood's top studios demand. Its wide exposure latitude is perfect for everyday shots. You can capture special effects, too. Shoot it in bright or low light—at up to 1200 ASA. What's more, it's economical. And remember, Seattle FilmWorks lets you choose prints or slides, or both, from the same roll. Try this remarkable film today!

D1985 SP3W

## \$2 INTRODUCTORY SPECIAL

☐ RUSH me two 20-exposure rolls of Kodak MP film for my 35mm camera. Enclosed is \$2 for a 2-roll starter pack including Eastman 5247\* and 5294\* 071

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

ZIP \_\_\_\_\_

Mail to: Seattle FilmWorks, 500 3rd Ave. W.  
P.O. Box C-34056, Seattle, WA 98124

Kodak, 5247, and 5294 are trademarks of Eastman Kodak Co. Seattle FilmWorks is wholly separate from the manufacturer. Process ECN-11

# RED ALERT!



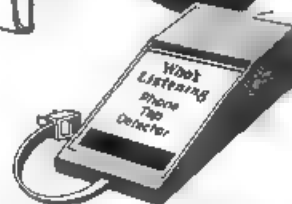
## Protect Yourself From Wiretaps, Eavesdropping and Voltage-Activated Tape Recorders

You'll never know if someone is listening in on your "private" conversations—until it's too late

Now you can guard against invasion of your personal privacy with the **WHO'S LISTENING PHONE TAP DETECTOR**, one of the most sophisticated (yet affordable) wiretap detection units available

The **WHO'S LISTENING PHONE TAP DETECTOR** will

- Detect and Warn of Wire Taps
- Warn You When Extension Phone is Picked Up
- Turn Off Voltage-Activated Tape Recorders
- Plug Right Into Your Phone in Seconds



**Only \$69<sup>95</sup>**

(plus \$2.95 shipping and handling)  
(FL Residents add 6% Sales Tax)

TO ORDER: If paying by C.O.D. or by credit card (VISA, MC or AMEX), please call the toll-free number below. If paying by check or money order, please mail to

**PRIVACY ELECTRONICS INC.**  
14351 N. Dale Mabry Hwy.  
Tampa, Florida 33618

**Toll-Free: 1-800-346-6871**  
**in Florida: 1-800-330-6001**

**PRIVACY ELECTRONICS INC.**  
*Because You Never Know Who's Listening.*

# WANTED

1. LEFT THUMB



2. LEFT INDEX



3. LEFT MIDDLE



4. LEFT RING



5. LEFT LITTLE



**A**n arrest for marijuana can be a devastating experience, not just for the victim, but for the family and friends as well.

Even those who don't go to jail can face an arrest record, probation, urine testing, property confiscation and the humiliation and shame associated with a trip through our criminal justice system.

Unfortunately, people **ARE** going to jail for marijuana. And the numbers are increasing. A community social worker in Texas was just sentenced to 60 days in jail and fined \$1500 for possession of 2/10th's of a gram of marijuana. It was her first offense.

These people need our support.

**NORML** provides legal referrals and assistance, credible information about marijuana and the reassurance of moral support. We need your help!

If you or someone in your family has been arrested for marijuana, please write us about your experience.

If you or someone in your family has submitted to a random urine test and lost their job due to an inaccurate result, please write us about your experience.

If you have not yet been arrested or urine tested for marijuana, please help us help the victims while we work together to prevent it from happening to you!

Please send a generous donation or join **NORML** today!

**NORML**, I want to help prevent it from happening to anybody!

☐ Here's my \$25 regular membership dues.

☐ Here's my \$35 family membership dues.

☐ Here's my \$15 low-income, military or student membership dues.

☐ Sorry, I can't join right now, but here's a contribution of \$\_\_\_\_\_

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_

STATE: \_\_\_\_\_

ZIP: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_

MAIL TO:  
**NATIONAL ORGANIZATION  
FOR THE REFORM OF  
MARIJUANA LAWS**

2001 'S' Street, N.W., Suite 640,  
Washington, D.C. 20009  
(202) 483-5500

continued from page 77

unfertilized by pollen from male flowers. Once in a while male and female flowers are produced on the same plant. This plant is called an hermaphrodite. We are looking only for a few good females. Flowers from both the male and hermaphrodite plants can fertilize a female. When the males and hermaphrodites indicate, they should be removed from the garden, leaving only females. About half the plants will indicate male. This will open up the garden and give the surviving plants more room.

At the same time that the light is changed the fertilizer formula should also be changed to one that promotes flowering. A formula high in phosphorus, which plants need for profuse flowering, will increase the yield. These formulas are available through hi-tech grow stores.

Within four to eight weeks depending on variety and growing conditions, the plants should be filled with sticky buds ready to be harvested.

## SMALL TIME CURING

Take the branches and trim the outer leaves. Then trim the smaller leaves not directly covering the bud. Leave the bud leaves on to protect the glands on the flowers. These leaves have many THC bearing glands. Some people enjoy them in a water pipe.

If you have a small harvest put all of the buds in a brown paper bag in a cool space (about 60-65 degrees) until the buds are dry enough to smoke. Open the bag once a day to let fresh air in. In humid areas keep the bag open while drying. Larger amounts can be dried on a small rack constructed inside of a cardboard box. A wire hanger often serves the purpose.

## RESTARTING

When the plants have indicated sex and are just starting to grow buds, you can take cuttings (clones) from the surviving plants. These can be rooted in water or in one of the substrates and will form the basis for your next crop, an all female clone crop. The cuttings should receive at least 16 hours of light per day, although they would root and grow faster under a constant light regimen. Once the flower garden is harvested the new plants can be placed inside.

If you kept notes, you would know which buds were the best and which plants yielded well. Based on this information, it is easy to figure out which plants are the best to grow. By taking cuttings only from preferred plants, you can grow only the best and upgrade the quality and yield of the garden. ●

Plant Hormones  
Amazing Results  
Totally Unique  
Absolutely Safe



**Plantastic**  
PLANT  
PRODUCTS

Do you want more female plants with virtually no extra effort?  
Do you want to maximize your yield within the space you have?  
Do you want a product that works in soil or hydroponics, indoors or out?  
Are you using any plant hormones now?

### SENSA-SOAK

A germinating fluid to promote more female plants from the very beginning of cell division in the seed. Up to 95% females produced in some tests. Contains a special cytokinin. Just soak your seeds.

35 ml.

\$9.95

### SENSA-SPRAY

A foliar spray to increase female flowers and decrease male flowers. All it takes is to spray before the plants start blooming. Produces ethylene to force feminine traits.

1 qt. conc.

\$9.95

### POWER BLOOM

Shortens vertical height eliminates wasted plant energy. Encourages lateral growth. Produces compact, sturdier plants with better overall vigor. Promotes more females with more numerous, bigger and earlier maturing buds.

2 qt. conc.

\$14.95

LARGER SIZES AVAILABLE

Quick, send me a free catalog with more information.

Add \$2.00 Shipping and Handling Per Order. No COD.

Mail to:

PLANTASTIC PLANT PRODUCTS

1442A Walnut St.

Berkeley, CA 94709

OR Call 24-hr. Toll Free Number

Nationwide 800-227-1617 Ext. 453

In California 800-772-3545 Ext. 453



THE MARIJUANA  
SEED CATALOG



The  
Direct  
Professionals

**SUPER SATIVA  
SEED CLUB**



**EXOTIC SEEDS FROM  
AMSTERDAM**

**THE MARIJUANA SEED CATALOG**

'87-'88

33 COLOR PICTURES

TOP QUALITY MARIJUANA SEEDS INDICA'S, SATIVA'S

U.S.-TOP STRAINS AND EXOTICS AND HYBRIDS

CAREFULLY BRED FOR INDOOR AND OUTDOOR

GROWING

MARIJUANA SEED BREEDING AND PRODUCING

IS OUR PROFESSION

☐ YES! PLEASE SEND ME A FREE  
COPY OF THE MARIJUANA  
SEED CATALOG '87-'88

NAME . . .

ADDRESS . . .

TOWN . . .

STATE/ZIP . . .

SEND VIA AIR MAIL TO

S.S.S.C. - POSTBUS 1942

1000 BX AMSTERDAM - HOLLAND

DISCRETION ASSURED.

A N E W A G E S E R V I C E



# →HEP CATS, HIPSTERS, HIPPIES+ BEATNIKS!



## Oct. 1976 No. 14

Stomp Help Out! The Por  
Smokers (by Leroy Bruce)  
The Death of the Cheech  
Wizard (by Denny O'Neil)  
Wild Parties (by Rex Weiner)  
Interview: R. Gordon  
Wasson: Lulu's Back in Town  
(by Tina Robbins) E Dorado  
centerfold

\$5.00



## Nov. 1977 No. 27

The Mighty Mezz: The Hep  
Cat Who Turned on Thirties  
Jazz (by Albert Goldman).  
Interview: R. Crumb. Confes-  
sions of a DEA Agent: White  
Slave Trade: ESP Power  
Increased by LSD: Sea Weed:  
Bill Walton: Basketball's  
Radical Vegetarian All-Star

\$5.00



## Feb. 1979 No. 42

Interview: William Burroughs  
(by Victor Bockris). God's  
Secret Agent (by Timothy  
Leary). Stupid TV (Especially  
Cop Shows). High Mountain  
Festiva. New York Man  
Amour: A Sinsemilla Sampler  
Heavy Cruisers, Freak Bros

\$5.00



## Mar. 1979 No. 43

Karouac (by William Bur-  
roughs). Interview: Ralph  
Metzner—Psychedelic Pio-  
neer: How to Start Your Own  
Record Company for Under  
\$2,000. America's Top-Ten  
Dope Defenders: Night of the  
Human Tomatoes. Opinion:  
David Byrne: Freak Bros

\$5.00



## May 1979 No. 45

Harlem's High Heydays (by  
Larry Sloman). A Short His-  
tory of the Devil (by Glenn  
O'Brien). How to Buy an  
Island: Interview: SanteBano.  
Scoring in Los Angeles.  
Media: Reading, Writing, and  
Reefers: Madness

\$5.00



## Feb. 1981 No. 66

Interview: Terry Southern  
with William Burroughs  
Blood of a Wig (by Terry  
Southern). My Acid Trip with  
Groucho (by Paul Krassner).  
TV Cowboys: Hopalong, Pala-  
din, Little Joe, Hoss and J. R.  
Winter Planting Guide. Turna  
Corner: Keef Richards Goes  
to the Dentist (by Josh and  
Draw Friedman)

\$5.00

## Apr. 1981 No. 68

James Dean, An Apprecia-  
tion: Memoirs of the Geek  
Beat Marijuana: "Harmless"  
Narcotic or Murderous Killer?  
Half Joint Counterpoint (by  
Dean Latham). Hypnotism:  
Learn Animal Magnetism in  
Your Spare Time (by John A.  
Keel)



## Oct. 1982 No. 86

Interview: Allen Ginsberg:  
Memoirs of an Old Weed-  
head: O Amsterdam: In  
Search of the Waag: Sounds:  
The No Nukes Woodstock  
Burn: Rockin' on the Back of  
the Bus with the Fabulous  
Thunderbirds Growhouses

\$5.00



## March 1983 No. 94

Fabulous '60s Issue: Tales of  
the Zen Basterd (by Paul  
Krassner). I Remember the  
Sixties (by R. Crumb). Songs  
of the '60s Experience (by  
Allen Ginsberg). Copping (by  
Michael Bloomfield as told to  
Larry Sloman). Swinging  
London

\$5.00



## Mar. 1985 No. 116

William Burroughs Interview:  
Art Against War: What Dope  
Does to the Movies: The  
Secret World of Nightmares:  
Cocaine '85 (by Dean  
Latham)

\$5.00



## March 1986 No. 124

Psych Out! Psychedelic  
Poster Art (by Mick Farren).  
Art Fink (by Steven Hager).  
Pot's in a Name? Big  
Guide To Piss Tests. Cali-  
fornia Calling. Quest For  
Firewood

\$10.00



## Apr. 1987 No. 140

Mondo Ruido (by Michael  
Weldon). The Fast Hep Car  
(by MacSpade and Holm-  
strom). Dug Testing in the  
Workplace: Tripping in the  
Eternal City of Death: Psychic  
Botanicals of Hawaii

\$5.00

## CALL TOLL FREE FOR ORDERS ONLY

800-435-0715

In Ill. 800-892-0753



- ☐ Payment enclosed  
☐ MasterCard ☐ Visa

Card # \_\_\_\_\_

Expiration date \_\_\_\_\_

Signature \_\_\_\_\_

### CHECK BOX:

- |                                     |               |
|-------------------------------------|---------------|
| <input type="checkbox"/> ISSUE #14  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #27  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #42  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #43  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #45  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #66  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #68  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #86  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #94  | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #115 | PRICE \$ 5.00 |
| <input type="checkbox"/> ISSUE #125 | PRICE \$10.00 |
| <input type="checkbox"/> ISSUE #140 | PRICE \$ 5.00 |

TOTAL \_\_\_\_\_

### HIGH TIMES

### BACK ISSUES

P.O. BOX 410

MT. MORRIS, IL 61054

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

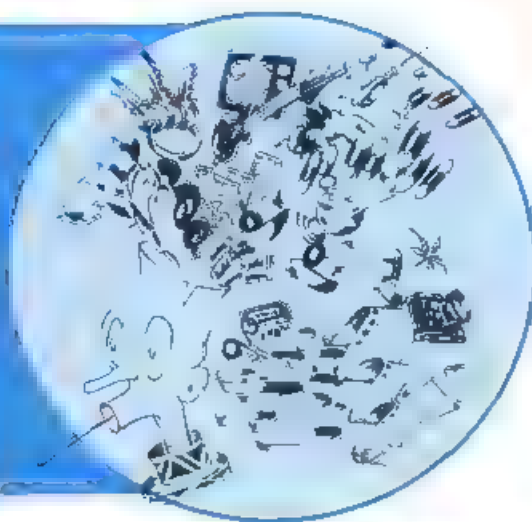
STATE \_\_\_\_\_

ZIP \_\_\_\_\_



BOOKSHELF .....	89
HEP CAT .....	90
GO-GO GIRL .....	92
THE HOUND'S EYE VIEW .....	93
CHEF RA'S KITCHEN .....	94
TWISTED IMAGE .....	94
PSYCHOTRONIC .....	95
TAPEWORM .....	96
THE TOP 100 .....	97

# MEDIA ROOM



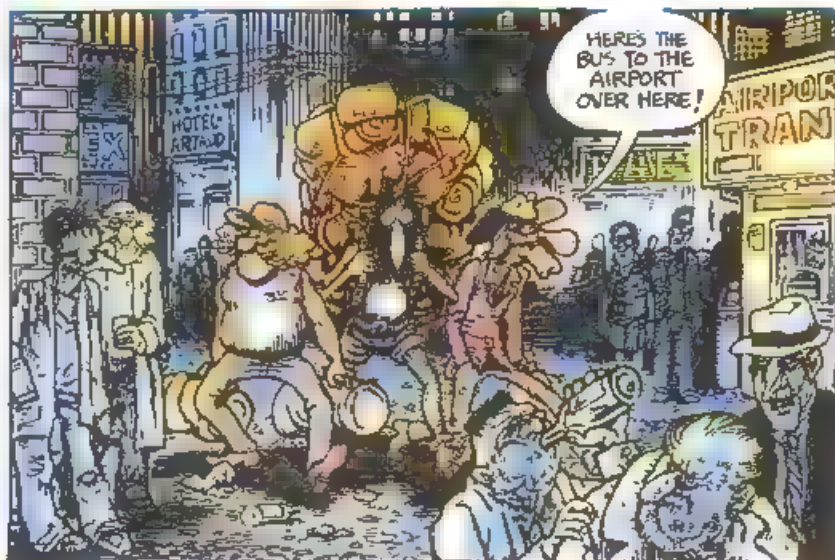
## THE FABULOUS FURRY FREAK BROTHERS IN "THE IDIOTS ABROAD"

At last! The Freak Brothers are back—bigger and better than ever! And, like WOW! They're back in style—a full-color, feature length graphic novel!

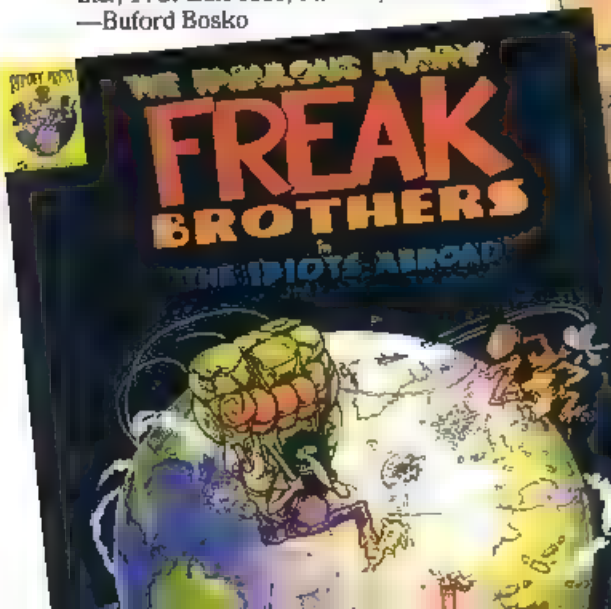
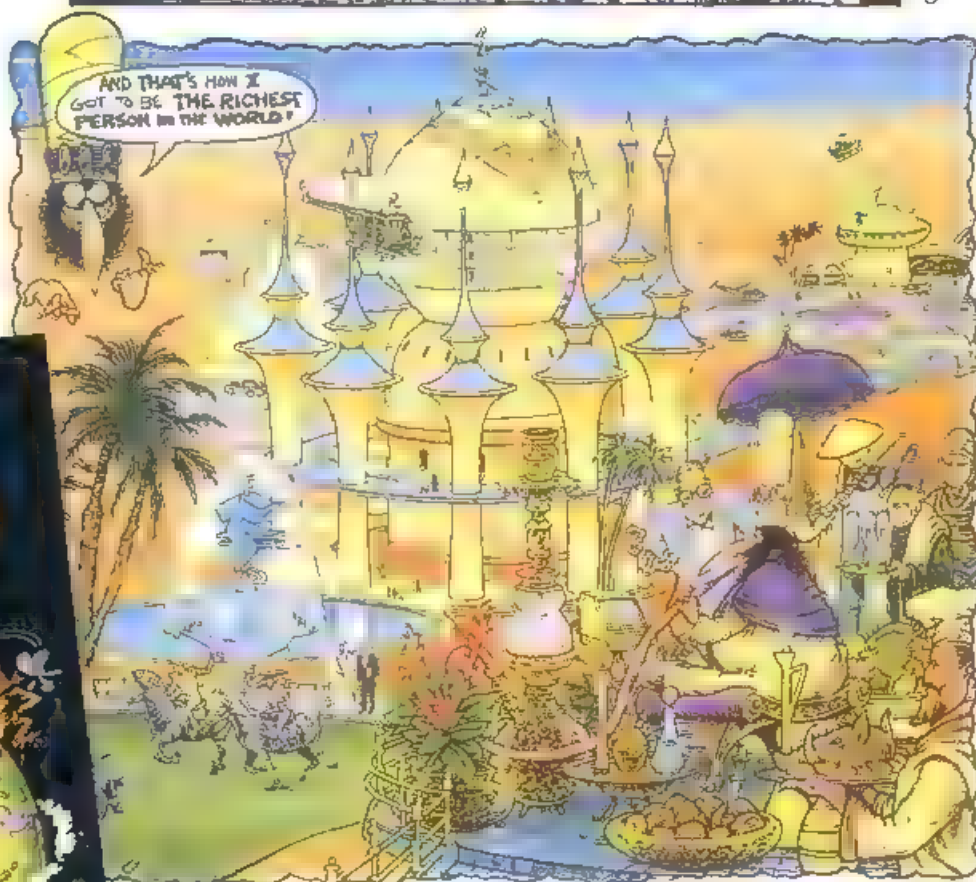
If you've been wondering what ever happened to the Brothers since leaving the pages of HIGH TIMES many moons ago, look no further. It took Gilbert Shelton and Paul Mavrides almost six years to finish this beautiful, full-color masterwork, and all I can say is it was worth every minute. Best of all, while Cheech and Chong, George Carlin, and other one-time drug culture heroes have sworn off and sold out, **The Idiots Abroad** finds the Freak Brothers still smokin' after all these years. The story line is too complicated to go into here, but no fan will be disappointed. In fact, any self-respecting Freak Brothers freak simply HAS TO HAVE this book. It's the coolest hunk of paper since R. Crumb's giant-sized Head Comics and Fritz the Cat books.

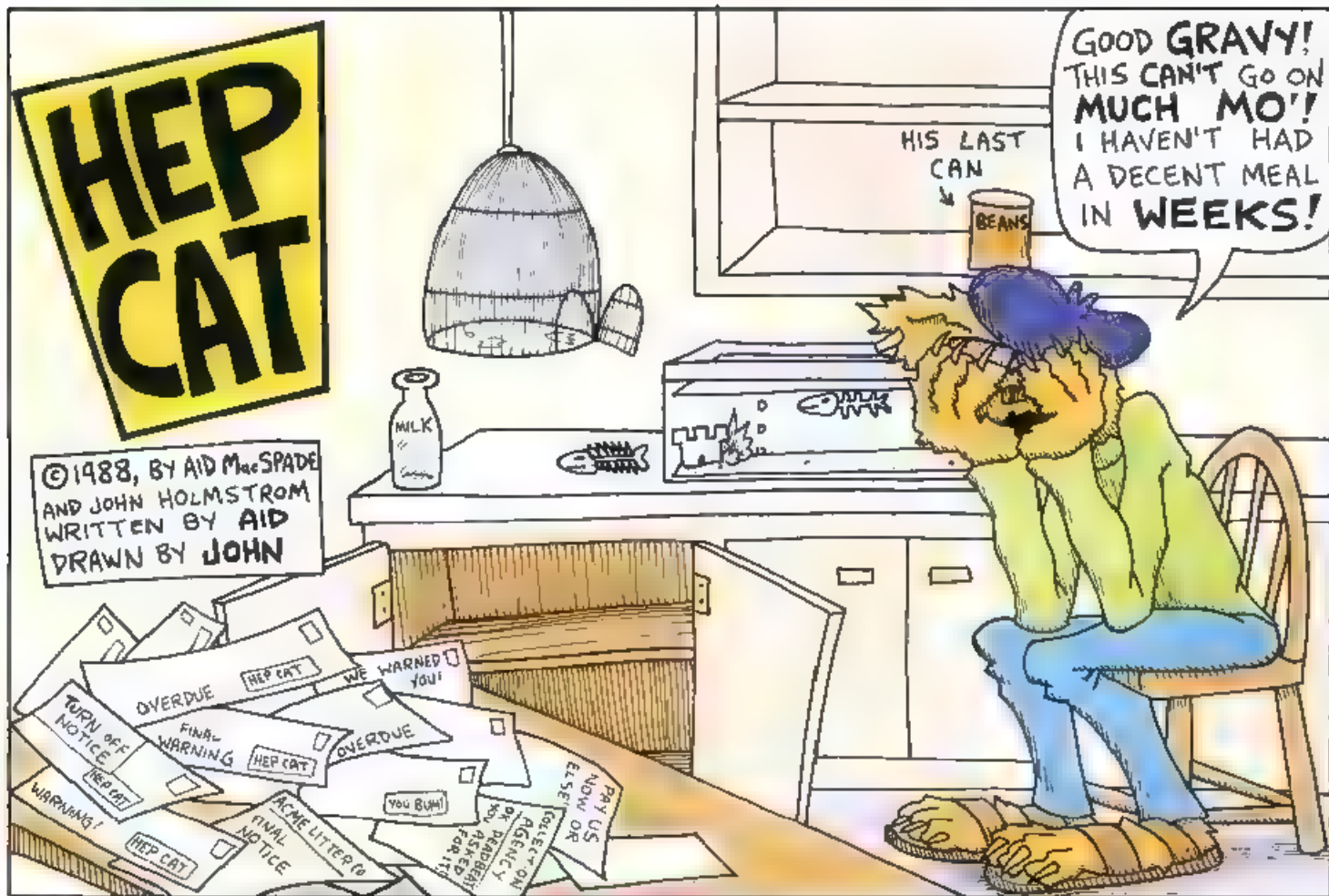
If your local hip bookstore is sold out, you can order a copy from: Rip Off Press, Inc., P.O. Box 4686, Auburn, CA 95604.

—Buford Bosko

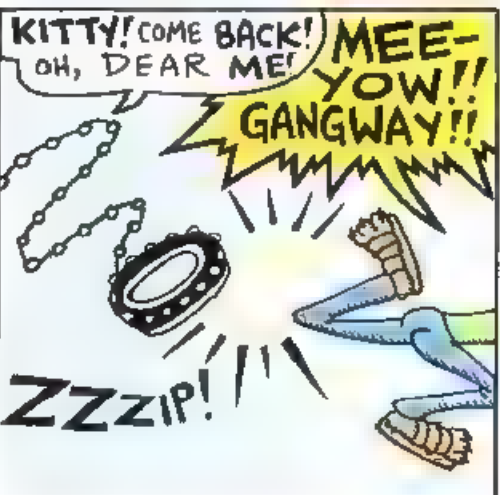
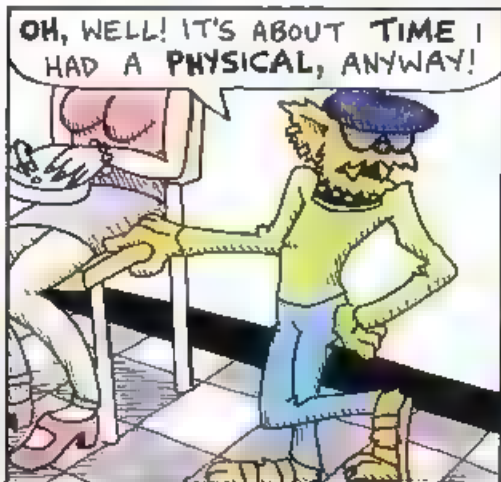
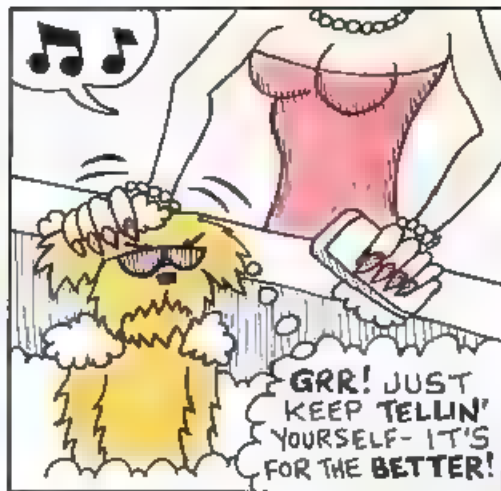
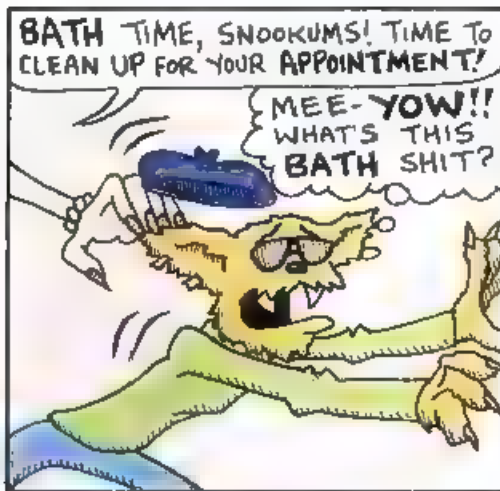


COPYRIGHT BY R.I.P. PRESS INC.













## GO-GO GIRL of the Month

Kim McAuliffe

Kim is the lead singer and founder of Girlschool, the best all-female heavy metal band in history. That may not be saying much, since almost every single all-female rock group from Fanny to the Runaways has sucked, but Girlschool is hotter than most all-guy rock groups!

Their sixth album, *Nightmare at Maple Cross*, is great. Critics have raved about it to the point where they claim it blows the doors off the latest platters from Motorhead, Motley Crue, the Ramones, Def Leppard, Guns N' Roses, Faster Pussycat, Poison.. well, you get the point.

When Kim rang up the HIGH TIMES offices to talk to us about being Go-Go Girl of the Month, I asked her what her idea of a dream date would be. She started talking about the Superman movie where "Clark Kent would take me up to the top of the Statue of Liberty and seduce me." Then I asked what kind of guy she goes for. "All sorts," she said. "Very tall, dark, and handsome with a hairy chest. And lots of money." (That left me out, that's for sure.) Then she added, "Preferably Steve Martin. He's lovely. I haven't seen too many like him though."

Kim also mentioned that they're good friends with Lemmy and the rest of the Motorhead crew, and tour with them occasionally. If you get a chance to see Girlschool live (or Motorhead, for that matter) do it—you won't be disappointed.



MC5—the band that ate together, slept together, fucked together, and broke up together.

## THREE CHORDS OF BRUTALITY

by James Marshall

Back in the early '70s, when nobody thought rock'n'roll could get any worse, a lot of teenage mutants around the country spent their time holed up blasting discs by The Stooges and the MC5, awaiting the holy grail of punk rock that would deliver us from Frampton and disco a few years later. It was a loose network of maladjusted cretins, who communicated through fanzines like *Back Door Man* and *Denim Delinquent*, traveled thousands of miles (at least I did, by thumb when I was too young to even drive), to catch the Stooges on their final tour, and dreamed of a future when it would all be three chords of brutality.

Now it's the late '80s, and rock'n'roll is almost a memory. Reminds me of geezers who get together to play dixieland on weekends, the idea of something like "School's Out" topping the charts is almost inconceivable, and as I write this (mid-winter '88), I think maybe the Sex Pistols were rock'n'roll's death rattle. I dunno, but those Stooges and MC5 discs that got me through similarly bland times in my teens sure sound right nowadays. So let us backtrack historically, shall we...?

The Detroit-Ann Arbor area of the early '60s had one of the most fertile punk scenes in the country. Local stars included hitmakers Mitch Ryder & the Detroit Wheels, the Amboy Dukes (featuring crazed guitar idiot Ted Nugent) and such local hotshots as The Fugitives, The Underdogs, The Pleasure Seekers (a great all-girl band led by Suzi Quatro), The Motor City 5 (later the MC5), ? and the Mysterians (transplanted Chicanos), Terry Knight & the Pack (later the nucleus of Grand Funk), the Last

Heard (led by Bob Seger), the Prime Movers, The Iguanas (featuring Iggy Pop on drums) and dozens more. Local labels like Hideout and A-2 could record these bands and get them on local radio, even get the occasional national hit, like The Rationals' rave-up of "Respect", a '66 chartmaker on A-2.

By '67, things were changing. No longer content to grind out "Gloria" and fueled by the radical politics of John Sinclair and the White Panther Party (who adopted the MC5 as their house band), the Detroit sound grew looser, meaner and louder. With the Grande Ballroom as the main venue, the MC5 and the Stooges (led by Iggy Pop, who took up the mike stand and gathered up the remnants of a particularly trashy garage band, the Dirty Shames) led the way towards a violent new musical future, which would last only a few short years but whose reverberations are still felt today. The big break came in '68, when Elektra A&R man Danny Fields signed both bands. The MC5, who had already cut two singles for local labels (both can be heard on the excellent ROIR cassette compilation *Babes In Arms*) had gotten increasingly political—having bought Sinclair's radical politics lock, stock, and shotgun barrel. Their first LP, recorded live at the Grande, *Kick Out The Jams*, is a classic of screeching anti-social heavy metal frenzy. Opening with a crazed rap from preacher J.C. Crawford, they blast originals like "Kick Out The Jams" and "Borderline", re-work Sun Ra's "Starship" into a psychedelic death trip, grind through a politically relevant rendition of John Lee Hooker's "The Motor City Is Burning", and embrace their own punk roots by trashing the Troggs' "I Want You" with amps pushing towards the 11 notch.

Unfortunately, the youth of America were busy embracing the good vibes. C S N & Y were spreading, and had no use for a vision of America overrun

by machine gun-toting hippies. The liner notes by Sinclair, and the word "motherfucker" on the disc, caused it to be banned by many stores—including the big mid-west chain Hudson's. In response, the 5 took out an ad in the Detroit Free Press that read *FUCK HUDSON'S*. Elektra used it as an excuse to drop them. Sinclair was soon sentenced to a few years in the pokey for the "crime" of two joints, and the MC5 were set adrift.

They signed with Atlantic, where they recorded two fine, if flawed, LPs: *Back In The USA*, released in 1970, (and sabotaged by Jon Landau, the man who would later foist Springsteen on us), and *HIGH TIME* (1971). They toured Europe, then broke up amidst personal (err... drug) problems and mass indifference. A live set, recorded at a small club in Detroit in 1972, *Do It* (Fan Club), captures them at the end—potent—but lacking the fire.

The Stooges, who were even more wild-eyed, fared better. Too uncontrollable even for John Sinclair (their only politics being the destruction of everything in their sight), they recorded a first LP, *The Stooges*, for Elektra under the supervision of former Velvet Underground member John Cale. Standing at the crossroads of '60s punk and destructo-metal, they began their career with two-chord anthems to teenage nihilism like "No Fun", "Little Doll", and "I Want To Be Your Dog", later to become standards for any punk group, circa 1977.

They toured America, blasting cross-legged hippies off the floor, as lead singer Iggy would hurl himself into the audience, bash his teeth with the mike, cut himself with bottles, and while the whole country watched on national TV, walk across an audience's hands like a punk Jesus, gleefully leading the lemmings off a cliff.

Their second Elektra LP, *Funhouse*  
*continued over*

MICHAEL DOUGLAS ARCHIVES

# Psycho- Jelic kitch'n

## Kentucky Derby May Day Mega-Jam!

By Chef Ra

It's the biggest, baddest party in the spring—Kentucky Derby Day in Louisville, Kentucky. Your Cross-Cultural Adventurer Chef Ra is on the scene, cookin' up the best party favors for all the fans. This year, May 7th is the date for the "Run for the Roses" at Churchill Downs. There are two types of races that I love, horse racing and turtle racing. Maybe it's because of my need for "Libran" balance—the slow and the fast. But the turtle racing will have to wait another month. Right now it's time to check out the ponies.

I guess I love the Derby not so much for the betting, but for the "gathering of the tribes." Hippies, old and young, rich and poor, black and white, rednecks, rubbernecks, rejects—all gettin' HIGH TOGETHER!! HIGH TIMES veterans from around the world gather to smoke, drink, and consume mass quantities.

To start the Derby Eve Party Weekend, every year Chef Ra puts on his psychedelic roller skates and races down a huge hill, covered from head to toe with flashing multi-colored lights!! The locals just "Freak-Out" when they see Ra flashing through the night—Heil, they think it's a UFO!!

When I reach the bottom of the hill, I skate over to a campfire surrounded by all my friends, and begin to cook the big pot of my favorite "Extra-Terrestrial Gumbo." After the communal dinner is finished, we sit around the fire and tell stories, laughing the night away in our "Gumbo Altered States"!!

### Extra-Terrestrial Gumbo

4 cups boned catfish (Sub. any firm white fish)  
1 sliced red bell pepper  
1 sliced green pepper  
2 cups canned tomatoes  
3 cups cooked okra  
1 cup of cooked yams  
1 bunch of broccoli  
1/2 cup of chopped scallions  
1/2 cup of chopped onions  
3 tablespoons fresh chopped parsley  
1 tablespoon of thyme  
5 cloves minced garlic  
1 teaspoon red pepper  
1 tablespoon fine gumbo powder  
1 teaspoon of paprika  
1 small hot pepper

### Gumbo Mixture

1 cup of boned Yard Bird (chicken)  
1 pound shrimp  
2 dozen oysters or crab  
1/2 cup peanut oil  
5 tablespoons of flour  
3 cups of cooked rice

Place the catfish and the Gumbo Mixture in large 5-8 quart pot. Heat mixture, saute in their own juices. Brown flour and onions in oil in separate skillet. Add onion, flour, and oil to Gumbo Mixture. Then add 3 quarts of water, all of the above spices and veggies to the pot. Bring Gumbo to a slight boil. Boil for 30 minutes, then lower heat and simmer for 15 minutes. Serve over rice. Serves 5-10 people

In keeping with Creole cooking traditions, you can add many different kinds of meat to the Gumbo Mixture. But, in keeping with Chef RA's cooking chemistry, you shouldn't use the "Gumbo Mixture" if you want to use the "Gumbo" to get HIGH, because it will block the ganja's effect. So go with the veggies and stay HIGH

Since there are so many ingredients in the Gumbo, the ganja can get lost in the pot. Instead, mix the ganja in measured doses to each plate of food. Cook ganja over low flame in 1/4 cup of peanut oil for 10 minutes. Add "Ganja Oil" in measured amounts to each plate. It's time to get spaced—OUT!! ●

## THREE CHORDS

continued from previous page  
(recently re-issued on CD), delivered on the promise in the most uncompromising way. It's the most brutal LP ever recorded; a murky aural swamp of distorted guitars and bloodthirsty screaming. The Ig pulls no punches this time out—"I'm dirt... and I don't care" goes the only ballad, a seven minute dirge that leaves the listener with frazzled nerve endings.

The Stooges toured more, bringing in a former Prime Mover on second guitar (Ron Asheton later switched to bass when Dave Alexander died in '72), and wrote new songs "Fresh Rag", "Black Like Me", "Asthma Attack" and others deemed unrecordable by Elektra, who dropped them in 1971. Despite a small but rabid following, they broke up in 1972, the final straw being drummer Scott Asheton totaling the equipment truck into a low bridge ("Yeah... they got out of the hospital and went back to the accident scene and started crawling around in the bushes, looking for their little bags of heroin..."—Ron Asheton).

Nineteen seventy-two brought another shot for the Stooges, who had a powerful ally in David Bowie (guess he's good for something). He had his Mainman management sign Iggy and got a large advance from Columbia. Sent to England to record a third LP with a new lineup, they spent months in the studio producing *Raw Power*.

It was as if a rock'n' roll band was dropped into a Viet Nam fire fight with a stack of Marshall amps. Songs like "Search and Destroy", "Gimme Danger", "Penetration", and "Death Trip" burned with a glaring hatred for everything (mostly with Iggy's self-hatred). This is the white man's Robert Johnson, only this time, loud enough to puncture ear drums.

Unfortunately, things went wrong almost immediately. Iggy & the

continued on page 96

## TWISTED IMAGE

by Ace Backwords © 1988







"And here are our files on Wild Weed," says Ronald Raygun, showing The Green Goddess the top-secret map to Dope Island.

## WE MADE REAGAN WHO HE IS

by Michael J. Weldon

When history records the Reagan years it will detail 96 (!) months of life under our oldest president, a man with bad hearing and a worse memory, who slept on the job and helped lower the standard of living for the majority of Americans. We'll remember with disbelief his embarrassing public errors and contradictions, and marvel at his record for least number of press conferences, highest cuts in federal programs and world's biggest military build-up at the expense of an ailing nation.

How did this unqualified bungler become leader of what used to be the most powerful country in the world? Could his landslide election victories have been based on the great job he did as governor of California? No way. Those votes must have been based on "The Great Communicator's" stature as an actor. People are usually judged by the company they keep. Since so many of Ron's close political allies and appointees have been fired, disgraced, jailed, fined or indicted, nobody thinks he made good judgments picking who he worked with in politics.

I think his appeal must be largely based on who he shared screen time with during his ('37 to '64) acting career. Since Reagan acted in 53 features, he starred opposite, or acted with, a lot of people. Many of them have been forgotten over the years, but when I look at his filmography some names just leap off the pages. I like to imagine Ron and Nancy in the private White House screening room enjoying some of these choice titles, all featuring actors who Ron worked with. I find relief thinking about Ron talking to some of these old Hollywood buddies in person and discussing the merits of these films. It makes my day to picture Reagan dreaming about the time he shared a sound stage with Ted Healy (shortly after the comedian

had stopped bashing Larry, Curly, and Moe around). I wish I could interview our 77-year-old almost ex-president and find out what Huntz Hall and Leo Gorcey were like, if Hugh Beaumont was really as nice and wise as he seems, and what a great role model Errol Flynn must have been.

I'd ask him how far he got with Rhonda Fleming, how he enjoyed Jack Elam in *WILD WEED*, and if Russ Tamblyn just said no. (If you need to know what movies these chosen celebrities were in with Ron, look for **RONALD REAGAN: THE HOLLYWOOD YEARS** (Citadel) which should be piled high on bookstore remainder tables any day now. It's important history.)

**CLAUDE AKINS** (a.k.a. Sheriff Lobo)—*MONSTER IN THE CLOSET*, *THE CURSE*, Poli-Grip ads ("Ouch!"). **MORRIS ANKRUM**—*THE GIANT CLAW*, *RED PLANET MARS*, *THE BEGINNING OF THE END*, *ZOMBIES OF MARA TAU*, *HOW TO MAKE A MONSTER*. **EDDIE ALBERT** (a.k.a. Oliver Wendell Douglas)—*THE DEVIL'S RAIN*, *YES*, *GIORGIO*. **EVE ARDEN** (Our Miss Brooks)—*GREASE II*, *UNDER THE RAINBOW*. **HUGH BEAUMONT** (a.k.a. Ward Cleaver)—*THE MOLE PEOPLE*, *THE HUMAN DUPLICATORS*. **SCOTTY BECKETT**—*MAMA'S LITTLE PIRATE*, *MIKE FRIGHT*, *HONKY DONKEY*, other "Our Gang" shorts. **BRUCE BENNETT**—*TARZAN AND THE GREEN GODDESS*, *THE ALLIGATOR PEOPLE*, *FIEND OF DOPE ISLAND*. **PAUL BIRCH**—*QUEEN OF OUTER SPACE*, *NOT OF THIS EARTH*, *BEAST WITH A MILLION EYES*. **JOHN CASSAVETES**—*INCUBUS*, *DEVIL'S ANGELS*. **VIRGINIA CHRISTINE** (a.k.a. Mrs. Olson on Folgers coffee ads)—*THE MUMMY'S CURSE*, *BILLY THE KID VS. DRACULA*. **STEVE COCHRAN**—*THE*

*BEAT GENERATION*, *I, MOBSTER*. **BRODERICK CRAWFORD** (a.k.a. Chief Dan Mathews, "10-4!")—*HELL'S BLOODY DEVILS*, *GOLIATH AND THE DRAGON*, *LOOK WHAT'S HAPPENED TO ROSEMARY'S BABY*. **NANCY DAVIS** (a.k.a. Dragon Lady)—*DONOVAN'S BRAIN*, guest on *DIFF'RENT STROKES*. **ANGIE DICKINSON** (a.k.a. Pepper)—*BIG BAD MAMA II*, *CHARLIE CHAN AND THE CURSE OF THE DRAGON QUEEN*. **JACK ELAM**—*WILD WEED*, *CANNONBALL RUN II*. **ESTELITA**—*JESSE JAMES MEETS FRANKENSTEIN'S DAUGHTER*. **GENE EVANS**—*SHOCK CORRIDOR*, *THE DEVIL TIMES FIVE*. **NORMAN FELL** (a.k.a. Stanley Roper)—*STRIPPED TO KILL*. **ERROL FLYNN**—*CUBAN REBEL GIRLS*. **STEVE FORREST**—*MOMMIE DEAREST*, *PHANTOM OF THE RUE MORGUE*, *AMAZON WOMEN OF THE MOON*. **ARTHUR FRANZ**—*BACK FROM THE DEAD*, *ATOMIC SUBMARINE*. **COLEEN GRAY**—*THE LEECH WOMAN*. **LEO GORCEY** (a.k.a. Slip)—*THE BOWERY BOYS MEET THE MONSTERS*, *SPY CHASERS*, *DIG THAT URANIUM*. **LEO GORDON**—*HITLER'S SON*, *KITTEN WITH A WHIP*. **CLU GULAGER**—*NIGHTMARE ON ELM ST II*, *RETURN OF THE LIVING DEAD*. **HUNTZ HALL** (a.k.a. Satch)—*GAS PUMP GIRLS*, *SPOOK CHASERS*, *HOLD THAT HYPNOTIST*. **MYRON HEALY**—*JUNGLE MOON MEN*, *THE UNEARTHLY*, *THE INCREDIBLE MELTING MAN*, *CLAWS*. **TED HEALY**—*SOUP TO NUTS*, *BEAR AND PRETZELS*, other Three Stooges shorts and features. **DARRYL HICKMAN**—*THE TINGLER*. **OSCAR HOMOLKA**—*MR. SARDONICUS*. **ROBERT HORTON**—*THE GREEN SLIME*. **RUSSELL JOHNSON** (a.k.a. The Professor)—*ATTACK OF THE CRAB MONSTERS*, *BLUE MOVIES*. **JACK KELLY**—*CULT OF THE COBRA*, *SHE DEVIL*. **ARTHUR KENNEDY**—*DON'T OPEN THE WINDOW*, *THE TEMPTER*, *THE SENTINEL*. **PIPER LAURIE**—*CARRIE*, *RUBY*, *DISTORTIONS*. **VIVECA LINDFORS**—*THE HAND*, *CREEPSHOW*, *SILENT MADNESS*. **FRANK LOVEJOY**—*I WAS A COMMUNIST FOR THE F.B.I.*, *SHACK OUT ON 101*, *HOUSE OF WAX*. **DOROTHY MALONE**—*ABDUCTION*, *THE BEING*, *THE DAY TIME ENDED*. **VIRGINIA MAYO**—*CASTLE OF EVIL*, *HAUNTED*. **GENE NELSON**—directed *HAND OF DEATH*, *HARUM SCARUM*, *HOOTENANNY*. **HOOT CRAIG STEVENS** (Peter Gunn)—*THE DEADLY MANTIS*, *ABBOTT AND COSTELLO MEET DR. JEKYLL AND MR. HYDE*. **RUSS TAMBLYN**—*SATAN'S SADISTS*, *FREE GRASS*, *WAR OF THE GARGANTUAS*, *CYCLONE*. **RICHARD TODD**—*THE LOVE-INS*, *ASYLUM*, *DORIAN GRAY*. **BILL WILLIAMS** (Kit Carson)—*THE GIANT SPIDER INVASION*, *SPACEMASTER X-7*. **ROLAND WINTERS** (Charlie Chan)—*THE FEATHERED SERPENT*, *THE CHINESE RING* ●

# THREE CHORDS

continued from page 94

Stooges (as they were now called) waited almost a year for David Bowie to mix the LP, the frustrating wait sending several band members back to the spike. When he finally showed, Bowie mixed it in three days, throwing away much of the painstakingly recorded 24-track in the process. (Doesn't matter that much, it's still great, but a note to Columbia—I'm available to remix when you're ready to put out the CD.)

When the LP was finally released in 1973 to ecstatic reviews, the band hit the road sans any management or organization on a tour Iggy called "My blows against the empire". Crisscrossing America for a year and a half without rhyme or reason (or dispatching) found the Ig at his most self-destructive. At the New York club Max's Kansas City, he flopped bare-chested onto broken bottles. At the Academy of Music he fell face-first in the audience a dozen times. In several cities he got arrested, and at the Grande Finale in Michigan, he faced down an entire biker gang with a 55 minute version of "Louie Louie" before getting decked by a pledging member. Two nights later, said bikers returned to kill the Stooges—a night captured on the live disc *Metallic KO* (Skydog). They didn't kill them, but side two finds Iggy taunting an audience so hostile you can hear beer bottles flying onto the stage every two seconds. It is one of the most chilling records ever recorded.

It was also the Stooges' final gig. Iggy headed for L.A., where he found himself first in jail, then in a mental hospital, until once again David Bowie extended his cold, clammy hand in friendship to launch him on a successful Stooge-less career.

Other great documents of Stooges' history can be found on two new LPs: *I'm Sick of You* (line/Germany), a collection of Raw Power rehearsal sessions that includes the amazing "I Got A Right", and *Rubber Legs* (Fan Club/France), which finds the post-Raw Power band rehearsing some incredible new tunes for a never-recorded fourth LP. Special kudos to "Open Up and Bleed", Iggy's most tormented ballad ever, and "Pinpoint Eyes", a chilling heroin blues. By the time you read this, more Stooges material will be available via the Fan Club label (which just purchased six hours of tapes from Ron Asheton). A 10" bootleg of the pre-David Bowie Raw Power mixes will also be making the rounds.

They came, they went, they blazed a trail of destruction and nihilism, and for that I salute you—sons of Detroit. ●



by Jim Poller

COURTESY THE CANNON GROUP, INC.

"I like critics, I just feel better when they're not around," muses Mickey Rourke in *Barfly*.

## BARFLY (HBO/Cannon)

Lush life. Charles Bukowski adapts his cum-and-blood prose to the screen, and Mickey Rourke plays him like an open sore doing a W.C. Fields impersonation. Faye Dunaway's Wanda is a much more beguiling character: once-goddess floating on a booze cloud that hasn't yet fogged her notions of pride and glamour. It's a tipsy screwball fairy tale with good performances, but Alice Krige as a lofty admirer should never be allowed to open her mouth in front of a camera again. Directed by Barbet Schroeder.

## FULL METAL JACKET (Warners)

The best Vietnam movie and the best movie about war since Kubrick's own *Paths of Glory*. Lee Ermey, who served in Vietnam and as technical advisor on *Apocalypse Now*, virtually plays himself as a fanatical drill sergeant whose abrasive 20 minute litany opens the movie. Berserk to the point of being cosmic Nancy Sinatra's on the soundtrack.

## BACK TO THE BEACH (Paramount)

Perfectly suited to video, this not necessarily awaited follow-up to the surf bunny pictures of the '60s is passable when it isn't trying too hard, but most of the humor is so weak you want to kick sand in its face. Annette Funicello plays herself (and sings with Fishbone), but Frankie Avalon seizes his role as though it were actually an acting job. Painful TV cross-references (Bob Denver and Jerry Mathers among them) and a ruinous rendition of "Surfin' Bird" by Pee Wee Herman.

## ASSAULT OF THE REBEL GIRLS (Fox Hills)

Known as *Cuban Rebel Girls* when released in 1959, this earnest glorification of Fidel Castro's campaign to wrest Cuba (filmed on location there) from Batista stars Errol Flynn in his last role. Politics aside, it was his affair with costar/beautician/nymphet Beverly Aadland that aroused everyone's curiosity. Read all about it in the reissue of her mom's cheesy book "The Big Love".

## L'ANNEE DES MEDUSE (Euro-American)

A topless tart abuses friends, family, strangers and lovers on the Cote d'Azur in this erotic black comedy antidote to *Back To The Beach*. Awkward subtitles, but who reads that much at a nude beach? Very little happens, but there's an excellent performance from Valerie Kaprisky's breasts.

## THE CONFESSIONS OF BERNHARD GOETZ (MPI)

Surprisingly levelheaded account of one of the decade's most infamous criminal debates, the bulk of which is Goetz's videotaped confession, made days after he surrendered himself to the police for shooting four blacks on a New York City subway. Interviews with a victim's lawyer, the jury who acquitted Goetz and Bernie's own, quite logical, occasionally profane and coldblooded admissions. His complete, unsanitized version is something to see and hear. ●

HI! YOU'RE JUST IN TIME! A BIG MEETING OF THE TOP 100 CLUB HAS BEEN CALLED! JOIN IN! IT'S GETTIN' NUTS!

ANOTHER CONTROVERSY?

I'M TIRED OF THIS CONSTANT BICKERING!

I JUST WANNA SEND IN MY VOTES, OK?

HEY! THIS IS IMPORTANT!

THE FUTURE OF THE TOP 100 IS AT STAKE HERE!

BIG DEAL!

WELL, SOME PEOPLE HAVE BEEN COMPLAINING ABOUT THE VOTING PROCEDURES!

#1 ALMOST FIFTY DIFFERENT PEOPLE SENT IN FOR THE DEAD

#5 A PETITION WITH ALMOST FORTY NAMES CAME IN FOR THIS VOTE

PETITIONS COUNT! I DIDN'T KNOW THAT!

#12 ABOUT FIFTEEN DIFFERENT PEOPLE VOTED FOR THIS

THAT'S ALL?

#17 MANY VOTES FROM A FEW DIFFERENT PEOPLE CAME IN FOR THIS

ERKS

HOLY COW!

#24 ONE GUY SENT IN 143 VOTES FOR THIS

WOW! THAT'S A LOT OF VOTES!

HOLY COW!

#24 ONE GUY SENT IN 143 VOTES FOR THIS

WOW! THAT'S A LOT OF VOTES!

HOLY COW!

#24 ONE GUY SENT IN 143 VOTES FOR THIS

WOW! THAT'S A LOT OF VOTES!

HOLY COW!

#24 ONE GUY SENT IN 143 VOTES FOR THIS

1. GRATEFUL DEAD (4)

2. BONG HITS (3)

3. ASK ED (20)

4. PEACE (13)

5. EL PRESIDENTE (NOT RON REAGAN-MIKE) (4)

6. FREE LOV (24)

7. THE GANG AT ZZZ (JOHN, CAROL, GEORGE, TON, MIKE, SCOTT + DAN) (57)

8. CHRIS + GREG'S ULTIMATE PARTY HOUSE ON CHICAGO'S NORTH SIDE (60)

9. HATE (58)

10. ROGER WATERS (24)

11. THE GANG AT ZZZ (JOHN, CAROL, GEORGE, TON, MIKE, SCOTT + DAN) (57)

12. CHRIS + GREG'S ULTIMATE PARTY HOUSE ON CHICAGO'S NORTH SIDE (60)

13. HATE (58)

14. ROGER WATERS (24)

15. THE GANG AT ZZZ (JOHN, CAROL, GEORGE, TON, MIKE, SCOTT + DAN) (57)

16. CHRIS + GREG'S ULTIMATE PARTY HOUSE ON CHICAGO'S NORTH SIDE (60)

17. HATE (58)

18. ROGER WATERS (24)

26. GROWIN' (1)

27. ACID (2)

28. AEROSMITH (20)

29. JET SET TULL (47)

30. JAKE 'N BAKE (4)

31. SURF-AY BUD-AY (58)

32. HEAVY METAL (24)

33. BOB MARLEY AND THE WAILERS (40)

34. GETTING STONED IN THE BATMOBILE (57)

35. LOVE (24)

36. THE MARIJUANA MAYOR OF MAYSVILLE, KENTUCKY (17)

37. EMPLOYING THE POOR, HOMELESS SPIDER MITE PREDATORS (17)

38. HENDRIX (27)

39. BEING FUCKED UP WHILE GETTING PICKED UP BY A JFO (27)

40. CHURCH LADY (27)

41. USING OUR RIGHT AND RESPONSIBILITY AS AMERICANS TO REGISTER AND VOTE (27)

42. THE MARIJUANA MAYOR OF MAYSVILLE, KENTUCKY (17)

43. EMPLOYING THE POOR, HOMELESS SPIDER MITE PREDATORS (17)

51. AL TAMEZ (27)

52. MEGADETH (27)

53. WEEDHOPPER'S JOINT ROLLING EXPERIENCE (27)

54. THE CRETE DIET KINGS (27)

55. I CAN'T LIVE WITHOUT IT! (27)

56. (THE BEST!) THERE IS NO SUCH THING AS GRAVITY NANCY REAGAN SUCKS ENOUGH TO HOLD EVERYTHING DOWN! (27)

57. RAUNCHY, GUTSY, OLD-TIME ROCK 'N' ROLL (OKAY, MARSHALL'S GOT A POINT!) (27)

58. REEFER MAFIA (27)

59. USING HOT WATER N MY BONG TO GET BIGGER HITS (27)

60. GRASSKNOTS (27)

61. HENDRIX (27)

62. BEING FUCKED UP WHILE GETTING PICKED UP BY A JFO (27)

63. CHURCH LADY (27)

64. USING OUR RIGHT AND RESPONSIBILITY AS AMERICANS TO REGISTER AND VOTE (27)

65. THE MARIJUANA MAYOR OF MAYSVILLE, KENTUCKY (17)

66. EMPLOYING THE POOR, HOMELESS SPIDER MITE PREDATORS (17)

67. HENDRIX (27)

68. BEING FUCKED UP WHILE GETTING PICKED UP BY A JFO (27)

76. SLITTING NARC'S THROAT AND BALLS (27)

77. WAVING BYE BYE AS NARC FADES TO BLACK (27)

78. PUTTIN' THE DEAD FIRST!! (27)

79. PRAISE THE ALMIGHTY FOR HE IS THE GIVER OF HERB (27)

80. MY PET SQUIRREL (27)

81. BONG MEN (27)

82. GREEN MONKEY SLAVES THAT FLUSH YOUR TOILET (27)

83. THE ASSHOLE THAT SAID "GRATEFUL DEAD SUCKS GREEN, SLIMY, DONKEY DICKS" (27)

84. RON PAUL FOR PRESIDENT (16)

85. I MAY BE STONED, BUT I'M NOT STUPID! (27)

86. SEX IS BETTER THAN DRUGS IF YOU KNOW THE RIGHT PUSHER (27)

87. SLOWLY WRECKING YOUR APARTMENT BECAUSE YOU'RE GETTING EVICTED (27)

88. THE ONLY PUNK BAND WITH ALL DRUMMERS- "YOW GIRL" (27)

89. DONALD REAGAN (27)

90. EATING 3 MELLON (27)

91. PASSING A COP ON THE HIGHWAY WHILE HOLDING DOWN THE JOINT AND LAUGHING LIKE HELL! (27)

92. [ (27)

93. SLOWLY WRECKING YOUR APARTMENT BECAUSE YOU'RE GETTING EVICTED (27)

#76 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

#81 THIS GOT ONLY ONE VOTE! ONLY ONE?

# NORMLTHON UPDATE!

AS I WRITE THIS, THE NORMLTHON IS JUST ABOUT TO GO ON SALE! WE'LL KEEP A TALLY OF HOW MUCH HAS BEEN RAISED THANKS TO ED ROSENTHAL'S SUPPORT, WE'RE HOPING EVERYONE WILL PITCH IN TO RAISE MONEY+MAKE THIS A BIG EVENT! DON'T WORRY YOU CAN JOIN NORML THROUGH THE NORMLTHON! JUST SEND THE CHECK TO NORML TO THE HIGH TIMES TOP 100!

THIS MONTH'S TALLY: \$400.00

#1

#2

#3

#4

#5

#6

#7

#8

#9

#10

#11

#12

#13

#14

#15

#16

#17

#18

#19

#20

#21

#22

#23

#24

#25

#26

#27

#28

#29

#30

#31

#32

#33

#34

#35

#36

#37

#38

#39

#40

#41

#42

#43

#44

#45

#46

#47

#48

#49

#50

#51

#52

#53

#54

#55

#56

#57

#58

#59

#60

#61

#62

#63

#64

#65

#66

#67

#68

#69

#70

#71

#72

#73

#74

#75

#76

#77

#78

#79

#80

#81

#82

#83

#84

#85

#86

#87

#88

#89

#90

#91

#92

#93

#94

#95

#96

SEND YOUR NORML\$, COMMENTS, +VOTES TO: THE HIGH TIMES TOP 100, 211 EAST 43<sup>RD</sup> ST. NY, NY 10017.

WRITE DOWN YOUR CHOICES +SEND TO US!



# DANSCO

## INDOOR GARDEN CENTERS

*One stop shopping*

### ■ LIGHTING SYSTEMS

(all systems are completely wired with quiet, ventilated ballast enclosure and quick-disconnect lamp lead)  
2 year ballast warranty and 1 year lamp warranty

1000W Metal Halide .....	189.00
(Superbulb)	
400W Metal Halide .....	139.00
(Superbulb)	
Metal Halide Phosphor	
Coated Bulbs .....	add 5.00
175W Metal Halide .....	110.00
1000W High Pressure Sodium .....	259.00
400W High Pressure Sodium .....	189.00
150W High Pressure Sodium .....	110.00
Horizontal or Parabolic Reflectors for 1000W Systems add \$10.00 & for 400W Systems add \$20.00	

### ■ BULBS

1 year lamp warranty

#### METAL HALIDE:

MS1000, 125,000 lumens .....	59.00
MS1000 Hor., 125,000 lumens,	
horizontal .....	69.00
MS400, 40,000 lumens .....	44.00
MS400 Hor., 40,000 lumens,	
horizontal .....	54.00
Metal Halide Phosphor	
Coated Bulbs .....	add 5.00
M175, 15,000 lumens .....	29.00

#### HIGH PRESSURE SODIUM:

LU1000, 140,000 lumens .....	69.00
LU400, 50,000 lumens .....	45.00
LU150, 16,000 lumens .....	39.00

#### HIGH PRESSURE SODIUM CONVERSION:

940W, 140,000 lumens .....	139.00
360W, 50,000 lumens .....	69.00

#### FLUORESCENT TUBES:

24" Gro Lux .....	7.95
24" Vita Lite .....	12.50
48" Gro Lux .....	9.95
48" Vita Lite, Power Twist .....	13.95

#### ■ EBB-FLOW SYSTEM ..... \$39.00/Module\*



Includes: 44" x 24" Tray & Irrigation System  
\*(Benching, Pump, Timer & Reservoir purchased separately)



#### PROFESSIONAL PROPAGATION SYSTEM \$169.00

Includes: 1 - 44" x 24" x 11" Propagation Dome, 2 Pro Heat Mats, Thermostat w/ Remote Probe & 1qt Cloning Solution

### ■ REFLECTORS

(Polar white finish on all sockets included)

22" Round .....	24.95
44" Conical .....	39.95
48" Parabolic .....	54.95
84" Parabolic .....	169.95
Horizontal HPS .....	49.95
Horizontal MH .....	54.95

### ■ LIGHT MOVERS

4" Light Track .....	99.00
6" Light Track .....	99.00
1LS Sun Circle .....	139.00
2LS Sun Circle .....	199.00
3LS Sun Circle .....	259.00

### ■ HYDROPONICS

**HYDRO-FLO I** ..... 265.00  
Incl: 6 trays, 36 one gallon pots, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Module ..... 16.00

**HYDRO-CELL II** ..... 250.00  
Incl: 12 two gallon cells, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Cell ..... 6.00

### ■ TEST EQUIPMENT

Digital pH Pen .....	59.95
Digital Dissolved Salts Pen .....	59.95
Combination pH & Dissolved Salts Meter .....	399.00
Professional Digital Light Meter .....	175.00
CO <sub>2</sub> Tester .....	8.95
CO <sub>2</sub> Analyzer Tubes .....	4.50
MIN-MAX Thermometer .....	12.95
Temperature Humidity Gauge .....	12.95
30x Light Scope .....	26.95
100x Light Scope .....	49.95

### ■ CO<sub>2</sub> SYSTEMS

Injection System, w/o tank .....	179.00
Injection System w/ exhaust control, w/o tank .....	279.00
CO <sub>2</sub> Regulator/Flow Meter .....	79.95
DANSCO Propane Burner/CO <sub>2</sub> Generator .....	269.00
Johnson Propane Burner/CO <sub>2</sub> Generator .....	499.00

### ■ ODOR CONTROL

Zestron 700 Ionizer .....	79.95
Zestron 1000 Ionizer .....	79.95
Zestron Collector Ionizer .....	110.00
Zestron 3600 Ionizer .....	320.00
DANSCO Charcoal Air Filter .....	79.95
Ozone Generator for total odor removal .....	879.00

### ■ TIMERS

15A 120V, 24hr, Heavy Duty .....	19.95
15A 240V, 24hr, Heavy Duty .....	24.95
40A 120V, 24hr, Industrial .....	33.95
40A 240V, 24hr, Industrial .....	38.95
40A 120V, 1-60 minute cycle .....	67.95
15A 120V, 4 ON - 4 OFF, 1 minute min. ....	26.95

### ■ FANS & BLOWERS

100 CFM Axial Fan .....	25.50
240 CFM Axial Fan .....	57.95
560 CFM Axial Fan .....	59.95
60 CFM, Squirrel Cage .....	30.95
100 CFM, Squirrel Cage .....	38.95
140 CFM, Squirrel Cage .....	40.95
265 CFM, Squirrel Cage .....	45.95
465 CFM, Squirrel Cage .....	56.95
745 CFM, Squirrel Cage .....	112.95
980 CFM, Squirrel Cage .....	109.95
1450 CFM, Squirrel Cage .....	142.00
300 CFM, Duct Fan .....	44.95
425 CFM, Duct Fan .....	47.95
660 CFM, Duct Fan .....	51.95
9" Oscillating Table Fan .....	25.95
12" Oscillating Table Fan .....	35.50
16" Oscillating Table Fan .....	52.95
9" Wall Mount Fan .....	45.95
12" Wall Mount Fan .....	52.95
16" Wall Mount Fan .....	59.95

### ■ THERMOSTATS & HUMIDISTATS

Thermostat, heating or cooling .....	19.95
Thermostat, heating or cooling w/ remote probe .....	34.95
Humidistat 40 - 90% .....	47.95
Combo Thermostat-Humidistat Fan Controller completely wired with 2 outlets .....	109.95

### ■ SUBMERSIBLE PUMPS

120 GPH .....	36.95
140 GPH .....	38.95
170 GPH .....	39.95
205 GPH w/ float control .....	59.95
240 GPH .....	47.95
1250 GPH .....	67.95

### ■ PROPAGATION AIDS

24" x 44" x 11" Propagation Dome .....	49.95
48" x 11" Pro-Heat Tape .....	21.95
Thermostat w/ remote probe ± 1° .....	69.95
Woods Rooting Compound .....	7.95
Rootone F, 2oz .....	4.49
Olivia's Cloning Solution, 1 qt .....	11.95
Olivia's Cloning Solution, 1 gal .....	39.95

### ■ ROCKWOOL

1 1/4 x 1 1/4 Multi-Blocks .....	.07
2 x 2 Multi-Blocks .....	.10
3 x 3 Cube .....	.34
4 x 4 Cube .....	.48
6" x 3" Slab .....	4.75
8" x 3" Slab .....	6.25
12" x 3" Slab .....	9.50
45lb Repellent Bale .....	28.50
35lb Absorbent Bale .....	22.00
55lb Absorbent Bale .....	49.00
Full case discount of 10% on Rockwool products	

### ■ REFLECTANTS

4' x 25' Mylar .....	17.95
4' x 50' Mylar .....	27.95
4' x 100' Mylar .....	44.95
20' x 100' White Visqueen .....	59.95



#### SLAB SYSTEM ..... \$59.00/Module\*

Includes 3 - 3' x 8' Rockwool Slabs, Drip Irrigation System & Tray  
\*(Benching, Pump, Timer & Reservoir purchased separately)

### ■ BOOKS

Gardening Indoors .....	16.95
Beginning Hydroponics .....	7.95
Hydroponic Food Production .....	29.95
Rockwool In Horticulture .....	34.95

We also carry General Hydroponics, Suncor, WonderGrow and Eco nutrients and pH Control along with many other products. Complete price list available.



With 10 years in business we have the experience to anticipate our customers' needs. Most orders shipped within 24 hours.

VISA, MC, Amex, COD orders welcome.

DANSCO HALIDE  
315 North 105th  
Seattle, WA 98133  
(206) 784-9492  
(800) 345-3398

DANSCO INDOOR GARDEN CENTER  
844 University Avenue  
Berkeley, CA 94710  
(415) 549-2918  
(800) 523-1367

Dealer Inquiries: DANSCO DISTRIBUTORS 4442-27th W. Seattle, WA 98199 [206] 282-7282



# GET THINGS GOING WITH

## BEFORE!



# FAST ONES

## STIMULANTS DIET AIDS SLEEPING AIDS

**LOWEST PRICES ANYWHERE**  
**WE WILL MEET OR BEAT ANY**  
**REASONABLE PRICES BY 10%**  
**ORDERS SHIPPED IN 24 HOURS**  
**100% GUARANTEE**

**FAST ONES™** SPECIAL PRICE  
"Super Strength" 1000 100  
\$30.00 \$6.50

**FREE SAMPLES\***  
CODE  
#30

**STEREODIUM**

**FAST ONES** FIGHTS THAT DROWSY FEELING BY IMPROVING YOUR STAMINA, COORDINATION, CONCENTRATION!

**FAST ONES** NEVER LETS YOU MISS THOSE SPECIAL MOMENTS!

**FAST ONES** GIVES YOU EXTRA STAMINA TO LOSE THOSE UNWANTED POUNDS AND INCHES THAT MAKE YOU FEEL SO UNATTRACTIVE AND UNDESIRABLE!

**FAST ONES** LETS YOU LIVE A MORE EXPERIENCING LIFE!

CHOOSE FROM A WIDE VARIETY TO GET YOUR EXACT TYPE AND STRENGTH YOU PREFER. THAT'S SOMETHING STORES CAN'T DO!

**NOT SURE? SAMPLE PACK**

**MAXI PACK**  
500 TABLETS & CAPSULES  
TOTAL 10 TYPES  
\$42.50  
#26

**MINI PACK**  
500 TABLETS & CAPSULES  
TOTAL 5 TYPES  
\$22.50  
#31

INGREDIENTS MAY VARY

## AFTER!

**EXTRA STRENGTH**



**CALL (813) 527-9977**

**PAYMENT:**

- CHARGE CARD (\$10 min.)
- MONEY ORDER
- PERSONAL CHECK (MUST BE BANK PRINTED WITH THE SHIP TO ADDRESS. ACCOUNT MUST BE 6 MONTHS OLD. NO CHECKS OVER \$50.00.
- PAYMENT TO 20TH CENTURY DISTRIBUTORS
- C.O.D. (CASH ON DELIVERY) (PHONE IN ONLY) \$10.00 min.
- ALL ORDERS IN US FUNDS

Offers subject to change without notice. Take only as directed. Read all package statements, no sales to minors or where prohibited by law. The advertised products have various levels of non-controlled ingredients. O.T.C.'s Not to be Mixed with Alcohol.

**NOTE**

Our products bear our trademark. They cannot be confused with any other product on the market. Any attempts to alter these products for sale as a controlled substance or prescription drug may be a crime. This may result in criminal prosecution. Compliance with any law is the purchaser's responsibility.

**MILD (THICK)**

**CLEAR (THIN)**

**SURE CURE II DIET AID**

**NIGHTY NIGHT**

**APETITE SUPPRESSANT**

**(ORDER FORM)**

PRODUCT NUMBER  
ECONOMY SIZE 1000  
QUANTITY

**Orders Shipped in 24 Hours!**

Sub-Total  
Add Sales Tax  
Shipping  
Total

\*PLEASE PRINT

Signature  
SEND ORDER TO:  
Name Address City State Zip Phone  
CODE

**20th Century Dist.**  
5480 58th St. No.  
Box 26338  
St. Petersburg, FL 33709

**CALL (813) 527-9977**

**50 MGS DIETHYLHYDRAZINE**  
100  
\$10.00  
CODE #25

**1000 100**  
\$25.00 \$9.95  
75 MGS R.P.A. (TIME RELEASED) #24

**1000 100**  
\$17.95 \$4.50  
25 MGS EPHEDRINE CODE #10

**1000 100**  
\$17.50 \$4.50  
85 MGS CAFFEINE CODE #9

**1000 100**  
\$29.95 \$6.50  
200 MGS CAFFEINE CODE #13

**1000 100**  
\$22.50 \$4.50  
225 MGS CAFFEINE CODE #5

**1000 100**  
\$22.50 \$4.50  
250 MGS CAFFEINE CODE #1

**1000 100**  
\$30.00 \$6.50  
350 MGS CAFFEINE CODE #30





# HOW TO BUY THE MOST SUPERIOR HALIDE SYSTEM IN THE WORLD.

The process of choosing the right Halide system no longer has to be a game of Hide and Seek. For over four years we at Ram Enterprises have taken pride in producing the highest quality metal Halide indoor gardening systems. Each is complete with a full one year guarantee, not



to mention prices that make our competition squirm.

Our systems exceed and surpass bulb and ballast manufacturers' codes. Each system is equipped with a Jefferson or Advance low-noise ballast and capacitor, solidly mounted in a steel box uniquely designed to maintain the ballast and capacitor at their optimum running tempera-

ture. We also use high-temperature triple-jacketed 600-volt wire for your absolute safety. And as an added feature, pulse-rated bulb sockets of 5-KV.

If you've been buying anywhere else, you owe it to yourself to give us a call. You'll see that next to Ram Enterprises, all other Halide manufacturers are still in the Dark Ages.

## Specifications and Prices

System A. 1000-watt Super Halide Sylvania MS 1000, clear or coated bulb, your choice of reflector (45 in. recommended) \$199.00  
System B. 1000-watt high-pressure sodium LU 1000 Sylvania bulb, your choice of reflector (45 in. recommended) \$265.00

Bulbs only

MS 1000 BU clear Sylvania \$62.00

Prices do not include shipping & handling.

With locations in Washington, Oregon and California. ©1983 M&R LIGHTING, INC.

MS 1000 C/BU coated \$62.00  
MS 400 Sylvania \$45.00

High-pressure sodium LU 1000 Sylvania \$69.95

High-pressure sodium LU 400 Sylvania \$45.00

Complete line of accessories.



The no-bullshit Halide specialists.  
Call 1-800-426-5577  
In Washington 206-833-8280

System \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

TO ORDER: Send cashiers check, money order or C.O.D. order (send 20% deposit) to:



ENTERPRISES division of



LIGHTING, INC. 420 Seattle Blvd  
Pacific WA 98047



# High Times

JUNE 1988



Reprinted from the High Times Archive

<https://archive.hightimes.com/issue/19880601/print>



©2023 - HIGH TIMES ARCHIVE. ALL RIGHTS RESERVED.